

FLORIDA BAY MACROINVERTEBRATE COMMUNITY ASSESSMENT, AUGUST 2000



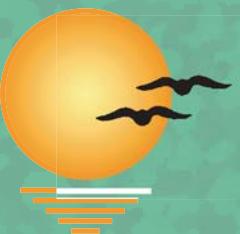
SUBMITTED TO:

**U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
NATION CENTERS FOR COASTAL OCEAN SCIENCE
CENTER FOR COASTAL MONITORING AND ASSESSMENT
219 FORT JOHNSON ROAD
CHARLESTON, SOUTH CAROLINA 29412**

PREPARED BY:

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SEPTEMBER 2001



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INTRODUCTION

Florida Bay was sampled during August 2000 (Figure 1). One aspect of this study was benthic community characterization, which was accomplished via sample collection by National Oceanic and Atmospheric Administration (NOAA) personnel and laboratory and data analysis by Barry A. Vittor & Associates, Inc. (BVA).

METHODS

Sample Collection and Handling

A Young dredge (area = 0.04 m²) was used to collect bottom samples at each of 28 station locations (three replicate samples were taken at each station) throughout Florida Bay. Samples were prescreened through 0.5 mm mesh seives, by NOAA in the field and fixed in 10% formalin. The preserved sample fractions were transported to BVA'S laboratory in Mobile, Alabama.

Macrofaunal Sample Analysis

In the laboratory of BVA, benthic samples were inventoried, rinsed gently through a 0.5 mm mesh sieve to remove preservatives and sediment, stained with Rose Bengal, and stored in 70% isopropanol solution until processing. Sample material (sediment, detritus, organisms) was placed in white enamel trays for sorting under Wild M-5A dissecting microscopes. All macroinvertebrates were carefully removed with forceps and placed in labelled glass vials containing 70% isopropanol. Each vial represented a major taxonomic group (*e.g.* Polychaeta, Mollusca, Arthropoda). All sorted macroinvertebrates were identified to the lowest practical identification level (LPIL), which in most cases was to species level unless the specimen was a juvenile, damaged, or otherwise unidentifiable. The number of individuals of each taxon, excluding fragments, was recorded. A voucher collection was prepared, composed of representative individuals of each species not previously encountered in samples from the region.

DATA ANALYSIS

All data generated as a result of laboratory analysis of macroinfauna samples were first coded on data sheets. Enumeration data were entered for each species according to station and replicate. These data were reduced to a data summary report for each station, which included a taxonomic species list and benthic community parameters information. Archive data files of species identification and enumeration were prepared.

The Quality Assurance/Quality Control (QA/QC) reports for the Florida Bay samples are given in Appendices A1 and A2. Quality control comments on dominant LPIL taxa are given in Appendix A3.

Assemblage Structure

Several numerical indices were chosen for analysis and interpretation of the macroinfaunal data. Selection was based primarily on the ability of the index to provide a meaningful summary of data, as well as the applicability of the index to the characterization of the benthic community. Infaunal abundance is reported as the total number of individuals per station and the total number of individuals per square meter (= density). Taxa richness is reported as the total number of taxa represented in a given station collection.

Taxa diversity, which is often related to the ecological stability and environmental "quality" of the benthos, was estimated by the Shannon-Weaver Index (Pielou, 1966), according to the following formula:

$$H' = - \sum_{i=1}^S p_i (\ln p_i)$$

where, S = the number of taxa in the sample,

i = the i'th taxon in the sample, and

p_i = the number of individuals of the i'th taxon divided by the total number of individuals in the sample.

Taxa diversity was calculated using ln, however taxa diversity may also be

calculated using log. Both methods for calculating taxa diversity are common in scientific literature. The taxa diversity calculated in this report using \ln , can be converted to log by multiplying the taxa diversity by 1.44270.

Taxa diversity within a given community is dependent upon the number of taxa present (taxa richness) and the distribution of all individuals among those taxa (equitability or evenness). In order to quantify and compare faunal equitability to taxa diversity for a given area, Pielou's Index J' (Pielou, 1966) was calculated as $J' = H'/\ln S$, where $\ln S = H'_{\max}$, or the maximum possible diversity, when all taxa are represented by the same number of individuals; thus, $J' = H' /H'_{\max}$.

Macroinfaunal data were graphically and statistically analyzed to identify any differences in density and number of taxa per replicate between stations. Data for density was analyzed using a one-way ANOVA and Tukey-Kramer post-hoc tests (SAS Institute, 2000). Data for taxa richness (mean number of taxa per replicate) could not be normalized using standard transformations (Shapiro-Wilk W; SAS Institute, 2000), and were analyzed using a non-parameteric Wilcoxon test (Zar, 1999; SAS Institute, 1995).

HABITAT CHARACTERISTICS

Water quality data for the 28 stations are presented in Table 1 and Figures 2 and 3. Depth ranged from 0.9 m at Station LR25 to 9.0 m at Station MR12 (Figure 2). Salinity ranged from 35.3 at Station LR25 to 43.4 at Station LR31 (Figure 3). Dissolved oxygen ranged from 3.3 mg/l at Stations LR48 to 5.3 mg/l at Station LR38 (Figure 3).

Sediment data for the 28 stations are given in Table 1 and Figures 4 through 9. Sediment composition at the 28 stations varied throughout Florida Bay (Figure 4). Sand was the dominant sediment type at each station except Stations LR25, LR30, LR38, LR47 and LR48 (Figure 5). Mean particle size ranged from 0.51 at Station LR50 to 6.9 at Station LR25 (Figure 6). Sorting coefficient ranged from 1.1 at Station LR33 to 5.8 at Station LR45 (Figure 7). Percent water content ranged from 39.3 at Station LR50 to 339.7 at Station LR30 (Table 1; Figure 8). The percent total organic carbon (TOC)

fraction of the sediment was generally low with all values less than 4% (Table 1, Figure 9).

BENTHIC COMMUNITY CHARACTERIZATION

Faunal Composition, Abundance, and Community Structure

Table 2 provides a complete phylogenetic listing for all strata as well as data on taxa abundance and strata occurrence. Microsoft™ Excel spreadsheets are being provided separately to NOAA which include: raw data on taxa abundance and density by station, a complete taxonomic listing with strata abundance and occurrence and QA/QC comments, a major taxa table with overall taxa abundance, and an assemblage parameter table including data on mean number of taxa, mean density, taxa diversity and taxa evenness by station and stratum.

A total of 26,359 organisms, representing 687 taxa, were identified from the 28 stations (Table 3). Polychaetes were the most numerous organisms present representing 56% of the total assemblage, followed in abundance by malacostracans (14%) and gastropods (10%). Polychaetes represented 37% of the total number of taxa followed by malacostracans (28%), and gastropods (17%)(Table 3). The percentage abundance of the major taxa at the 28 stations is given in Table 4 and Figures 10 and 11.

The dominant taxa collected from the 28 stations were the polychaetes, *Mediomastus LPIL*, *Fabricinuda trilobata*, and *Exogone rolani* representing 7.6%, 7.5%, and 7.0% of the total number of individuals, respectively (Table 2). Rhynchocoela LPIL was the most widely distributed taxa being found at 100% of the stations. The distribution of taxa representing > 10% of the total assemblage at each station is given in Table 5.

Station abundance and taxa data are summarized for the 28 stations in Table 6. Mean density per station ranged from 2100.0 organisms·m² (SD = 950.0) at Station LR31 to 24,466.7 organisms·m² (SD = 2028.0) at Station LR27 (Table 6; Figures 12 and 13). There were significant differences in density between stations (Tables 7 and 8). The mean

number of taxa per station ranged from 21.7 taxa per replicate ($SD = 4.0$) at Station LR23 to 89.3 taxa per replicate ($SD = 10.8$) at Station LR52 (Table 6; Figures 14 and 15). There were significant differences in the number of taxa between stations (Table 7).

Taxa diversity and evenness for the Florida Bay stations are given in Table 6 and Figures 16, 17, 18 and 19. Taxa diversity (H') varied and ranged from 1.05 at Station LR23 to 4.27 at Station LR39 (Table 6; Figures 16 and 17). Taxa evenness (J') ranged from 0.29 at Station LR23 to 0.87 at Station LR49 (Table 6; Figures 18 and 19).

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Table 1. Summary of station location, water quality and sediment data for the Florida Bay stations, August 2000.

Station	Latitude	Longitude	Depth (m)	Temp. (C)	Salinity (ppt)	D.O. (mg/l)	% T.O.C.	% Gravel	% Sand	% Silt	% Clay	% Silt + Clay	USACE Description	Median Particle Size (phi)	Sorting Coefficient
LR-19	25.17581	80.50572	1.4	**	**	**	0.63	0.82	57.78	15.53	25.87	—	Clayey Sand	3.127	4.873
LR-21	25.12193	80.58278	1.4	**	**	**	1.00	4.63	48.60	15.81	30.96	—	Sandy Clay	3.428	5.404
LR-23	25.10724	80.73539	1.2	30.2	43.8	3.6	1.55	3.39	47.70	24.82	24.09	—	Clayey Sand	3.540	4.821
LR-25	25.08042	80.63933	0.9	30.3	35.3	3.8	1.42	0.42	23.63	35.84	40.11	—	Silty Clay	6.867	3.753
LR-27	25.06530	81.06700	3.2	31.4	39.4	4.4	0.51	2.91	92.18	—	—	4.90	Sand	1.336	1.487
LR-29	25.04600	81.13400	4.9	31.0	38.6	4.4	0.23	12.45	50.84	13.79	22.92	—	N/A	1.998	5.462
LR-30	25.02178	80.89438	1.2	30.4	41.3	3.6	3.36	0.00	18.67	41.34	39.98	—	Silty Clay	6.714	3.464
LR-31	24.99983	80.73990	1.5	30.2	43.4	3.5	1.18	2.64	42.37	24.23	30.76	—	Sandy Clay	5.178	4.735
LR-32	24.98321	81.06225	3.0	30.5	38.6	4.4	0.51	5.17	63.62	11.88	19.33	—	N/A	2.497	4.561
LR-33	24.97013	80.79373	2.1	30.7	41.5	3.7	0.22	3.95	92.68	—	—	3.37	Sand	0.655	1.139
LR-34	24.95503	80.60538	1.8	31.0	38.3	4.1	1.29	5.41	44.54	24.61	25.44	—	N/A	4.017	4.808
LR-35	24.95432	80.95668	2.7	31.3	39.9	4.4	0.92	1.00	49.50	20.44	29.07	—	Clayey Sand	3.959	4.715
LR-36	24.91478	81.11582	3.0	30.7	38.8	4.5	0.45	1.72	62.67	11.05	24.55	—	Clayey Sand	2.658	5.152
LR-37	24.89826	80.98428	2.7	30.9	38.9	3.8	2.19	0.70	42.81	27.28	29.20	—	Clayey Sand	5.580	4.324
LR-38	24.88561	80.92638	2.3	31.8	39.3	5.3	2.04	0.43	34.29	28.35	36.93	—	Sandy Clay	6.638	4.027
LR-39	24.88066	81.02858	2.1	31.2	38.9	3.9	1.79	9.46	45.70	11.82	33.02	—	N/A	2.521	7.571
LR-40	24.87379	80.79683	2.6	31.6	39.1	4.3	0.42	1.59	64.96	10.25	23.20	—	Clayey Sand	2.205	5.233
LR-41	24.68726	81.23000	2.3	31.1	38.2	3.6	0.80	0.69	62.20	12.38	24.73	—	Clayey Sand	3.285	4.761
LR-42	24.85962	81.36140	4.4	31.6	38.0	5.1	0.27	2.79	95.49	—	—	1.72	Sand	1.436	1.456
LR-45	24.84458	81.08147	2.7	31.1	39.0	3.5	1.87	3.46	46.22	21.57	28.76	—	Clayey Sand	4.030	5.770
LR-46	24.84140	81.21603	4.0	31.5	39.2	4.8	0.67	2.33	51.52	16.39	29.76	—	Clayey Sand	3.137	5.603
LR-47	24.81791	81.39074	1.8	31.7	38.1	4.1	1.80	0.00	24.03	38.92	37.05	—	Silty Clay	6.311	3.786
LR-48	24.77560	81.31274	2.1	31.8	39.0	3.3	1.65	0.22	34.34	28.79	36.64	—	Sandy Clay	6.265	4.456
LR-49	24.77282	80.97932	3.0	31.7	39.1	4.3	0.55	1.74	68.36	12.84	17.06	—	Silty Sand	1.741	4.538
LR-50	24.77093	81.03256	2.3	31.8	39.7	4.8	0.33	1.82	94.41	—	—	3.77	Sand	0.513	1.217
LR-51	24.76206	81.11771	2.7	32.4	40.2	3.5	0.55	6.90	60.75	10.01	22.34	—	N/A	1.726	5.647
LR-52	24.75227	81.20681	2.0	32.4	39.1	4.6	0.86	2.49	68.91	9.78	18.82	—	Silty Sand	1.782	4.635
MR-12	25.05350	81.27830	9.0	30.5	38.0	4.2	0.29	5.48	92.82	—	—	1.69	N/A	1.406	1.205

** indicates measurement not recorded

Table 2. Distribution and abundance of taxa for the Florida Bay stations, August 2000.

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Mediomastus</i> (LPIL)	Ann	Poly	2015	7.64	7.64	26	93
<i>Fabricinuda trilobata</i>	Ann	Poly	1985	7.53	15.18	26	93
<i>Exogone rolani</i>	Ann	Poly	1858	7.05	22.22	27	96
Tubificidae (LPIL)	Ann	Olig	1195	4.53	26.76	27	96
<i>Caecum pulchellum</i>	Mol	Gast	954	3.62	30.38	25	89
<i>Leptocheila</i> (LPIL)	Art	Mala	864	3.28	33.65	16	57
Sipuncula (LPIL)	Sip	—	777	2.95	36.60	24	86
<i>Monticellina dorsobranchialis</i>	Ann	Poly	694	2.63	39.24	22	79
<i>Scoletoma verrilli</i>	Ann	Poly	550	2.09	41.32	17	61
<i>Nucula aegeensis</i>	Mol	Biva	437	1.66	42.98	17	61
Rhynchocoela (LPIL)	Rhy	—	421	1.60	44.58	28	100
<i>Cirrophorus lyra</i>	Ann	Poly	387	1.47	46.04	26	93
Cirratulidae (LPIL)	Ann	Poly	363	1.38	47.42	23	82
<i>Syllis broomensis</i>	Ann	Poly	322	1.22	48.64	26	93
<i>Exogone lourei</i>	Ann	Poly	311	1.18	49.82	18	64
Ampelisca vadorum	Art	Mala	303	1.15	50.97	17	61
<i>Chione cancellata</i>	Mol	Biva	269	1.02	51.99	17	61
Capitellidae (LPIL)	Ann	Poly	267	1.01	53.01	21	75
<i>Schistomeringos pectinata</i>	Ann	Poly	262	0.99	54.00	24	86
Maldanidae (LPIL)	Ann	Poly	208	0.79	54.79	20	71
Nereididae (LPIL)	Ann	Poly	201	0.76	55.55	23	82
<i>Phascolion strombi</i>	Sip	—	198	0.75	56.30	20	71
<i>Tubulanus</i> (LPIL)	Rhy	Anop	198	0.75	57.05	24	86
<i>Schwartiella catesbyana</i>	Mol	Gast	179	0.68	57.73	16	57
Ophiuroidea (LPIL)	Ech	Ophi	173	0.66	58.39	25	89
<i>Prionospio</i> (LPIL)	Ann	Poly	170	0.64	59.03	25	89
Actiniaria (LPIL)	Cni	Anth	167	0.63	59.67	27	96
<i>Syllis cornuta</i>	Ann	Poly	166	0.63	60.30	26	93
<i>Lembos</i> (LPIL)	Art	Mala	157	0.60	60.89	22	79
<i>Branchiomma nigromaculata</i>	Ann	Poly	155	0.59	61.48	15	54
<i>Caecum floridanum</i>	Mol	Gast	151	0.57	62.05	3	11
<i>Caecum nitidium</i>	Mol	Gast	148	0.56	62.62	11	39
Lumbrineridae (LPIL)	Ann	Poly	147	0.56	63.17	16	57
<i>Aricidea taylori</i>	Ann	Poly	145	0.55	63.72	23	82
<i>Solemya occidentalis</i>	Mol	Biva	137	0.52	64.24	13	46
<i>Taylorpholoe hirsuta</i>	Ann	Poly	132	0.50	64.74	12	43
<i>Aricidea philbinae</i>	Ann	Poly	130	0.49	65.24	13	46
<i>Armandia maculata</i>	Ann	Poly	129	0.49	65.73	17	61
<i>Prionospio cristata</i>	Ann	Poly	129	0.49	66.22	13	46
<i>Decamastus</i> sp. A	Ann	Poly	128	0.49	66.70	8	29
<i>Mediomastus californiensis</i>	Ann	Poly	128	0.49	67.19	20	71
<i>Elasmopus levis</i>	Art	Mala	126	0.48	67.67	13	46
<i>Haplosyllis spongicola</i>	Ann	Poly	122	0.46	68.13	9	32
Sabellidae (LPIL)	Ann	Poly	114	0.43	68.56	21	75
<i>Pettibonella multiuncinata</i>	Ann	Poly	112	0.42	68.99	12	43
<i>Sphaerosyllis piriferopsis</i>	Ann	Poly	110	0.42	69.40	17	61
<i>Caecum imbricatum</i>	Mol	Gast	99	0.38	69.78	7	25
<i>Finella dubia</i>	Mol	Gast	93	0.35	70.13	2	7
<i>Tellina</i> (LPIL)	Mol	Biva	90	0.34	70.47	18	64
<i>Terebellides parvus</i>	Ann	Poly	89	0.34	70.81	13	46
<i>Lucina nassula</i>	Mol	Biva	88	0.33	71.14	7	25
<i>Aricidea catherinae</i>	Ann	Poly	86	0.33	71.47	17	61
<i>Grandidierella bonnieroides</i>	Art	Mala	85	0.32	71.79	11	39
<i>Podarkeopsis levifuscina</i>	Ann	Poly	85	0.32	72.12	20	71
<i>Goniadides carolinae</i>	Ann	Poly	84	0.32	72.43	9	32
<i>Lembos unifasciatus</i>	Art	Mala	83	0.31	72.75	9	32

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Notomastus tenuis</i>	Ann	Poly	82	0.31	73.06	9	32
<i>Polyplacophora</i> (LPIL)	Mol	Polyp	78	0.30	73.36	13	46
<i>Ceratocephale oculata</i>	Ann	Poly	76	0.29	73.64	9	32
<i>Protodorvillea kefersteini</i>	Ann	Poly	76	0.29	73.93	8	29
<i>Nereis panamensis</i>	Ann	Poly	74	0.28	74.21	11	39
<i>Cumella garrityi</i>	Art	Mala	73	0.28	74.49	18	64
<i>Lucinidae</i> (LPIL)	Mol	Biva	73	0.28	74.77	10	36
<i>Axiothella mucosa</i>	Ann	Poly	72	0.27	75.04	11	39
<i>Crepidula maculosa</i>	Mol	Gast	71	0.27	75.31	10	36
<i>Acteocina canaliculata</i>	Mol	Gast	69	0.26	75.57	11	39
<i>Acuminodeutopus naglei</i>	Art	Mala	69	0.26	75.83	10	36
<i>Serpulidae</i> (LPIL)	Ann	Poly	67	0.25	76.09	17	61
<i>Amakusanthura magnifica</i>	Art	Mala	66	0.25	76.34	18	64
<i>Eupolynnia nebulosa</i>	Ann	Poly	65	0.25	76.58	18	64
<i>Aricidea</i> (LPIL)	Ann	Poly	64	0.24	76.83	19	68
<i>Nereis falsa</i>	Ann	Poly	62	0.24	77.06	14	50
<i>Cymadusa compta</i>	Art	Mala	61	0.23	77.29	12	43
<i>Schistomerigos rudolphi</i>	Ann	Poly	61	0.23	77.53	12	43
<i>Diplodonta</i> (LPIL)	Mol	Biva	60	0.23	77.75	14	50
<i>Pagurolangis largoensis</i>	Art	Mala	56	0.21	77.97	3	11
<i>Ampelisca</i> (LPIL)	Art	Mala	55	0.21	78.17	14	50
<i>Cerithium</i> (LPIL)	Mol	Gast	54	0.20	78.38	3	11
<i>Scoletoma ernesti</i>	Ann	Poly	54	0.20	78.58	8	29
<i>Syllidae</i> (LPIL)	Ann	Poly	53	0.20	78.79	15	54
<i>Bulla striata</i>	Mol	Gast	52	0.20	78.98	14	50
<i>Chone</i> (LPIL)	Ann	Poly	52	0.20	79.18	13	46
<i>Erichthonius brasiliensis</i>	Art	Mala	52	0.20	79.38	5	18
<i>Caulleriella cf. alata</i>	Ann	Poly	51	0.19	79.57	14	50
<i>Hargeria rapax</i>	Art	Mala	50	0.19	79.76	9	32
<i>Carpias algicola</i>	Art	Mala	49	0.19	79.95	9	32
<i>Kalluapseudes</i> sp. C	Art	Mala	49	0.19	80.13	3	11
<i>Paracerceis caudata</i>	Art	Mala	49	0.19	80.32	15	54
<i>Scyphoproctus</i> (LPIL)	Ann	Poly	49	0.19	80.50	15	54
<i>Nematoneiris hebes</i>	Ann	Poly	48	0.18	80.69	17	61
<i>Neomegamphopus</i> (LPIL)	Art	Mala	48	0.18	80.87	5	18
<i>Tellina similis</i>	Mol	Biva	46	0.17	81.04	10	36
<i>Potycirrus</i> (LPIL)	Ann	Poly	45	0.17	81.21	12	43
<i>Cylindrobulla beauvii</i>	Mol	Gast	44	0.17	81.38	7	25
<i>Branchiosyllis exilis</i>	Ann	Poly	43	0.16	81.54	8	29
<i>Cerapus cudjoe</i>	Art	Mala	43	0.16	81.71	6	21
<i>Fimbriosthenelais minor</i>	Ann	Poly	41	0.16	81.86	14	50
<i>Aoridae</i> (LPIL)	Art	Mala	40	0.15	82.01	14	50
<i>Cyclostremiscus pentagonus</i>	Mol	Gast	40	0.15	82.17	3	11
<i>Deutella incerta</i>	Art	Mala	40	0.15	82.32	10	36
<i>Codakia orbicularis</i>	Mol	Biva	39	0.15	82.47	8	29
<i>Neomegamphopidae</i> (LPIL)	Art	Mala	39	0.15	82.61	4	14
<i>Nereis pelagica</i>	Ann	Poly	39	0.15	82.76	12	43
<i>Amphiuridae</i> (LPIL)	Ech	Ophi	38	0.14	82.91	9	32
<i>Branchiosyllis oculata</i>	Ann	Poly	38	0.14	83.05	5	18
<i>Cerithiidae</i> (LPIL)	Mol	Gast	38	0.14	83.19	17	61
<i>Marginella lavalleeana</i>	Mol	Gast	38	0.14	83.34	13	46
<i>Maera caroliniana</i>	Art	Mala	37	0.14	83.48	3	11
<i>Shoemakerella cubensis</i>	Art	Mala	37	0.14	83.62	6	21
<i>Syllis prolifera</i>	Ann	Poly	37	0.14	83.76	9	32
<i>Brachidontes exustus</i>	Mol	Biva	36	0.14	83.90	4	14
<i>Lucina</i> (LPIL)	Mol	Biva	34	0.13	84.02	12	43
<i>Podarke obscura</i>	Ann	Poly	34	0.13	84.15	15	54

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Prionospio steenstrupi</i>	Ann	Poly	34	0.13	84.28	11	39
<i>Olivella dealbata</i>	Mol	Gast	33	0.13	84.41	8	29
<i>Syllis danieli</i>	Ann	Poly	33	0.13	84.53	7	25
Veneridae (LPIL)	Mol	Biva	33	0.13	84.66	12	43
<i>Nereis acuminata</i>	Ann	Poly	32	0.12	84.78	6	21
<i>Nereis grayi</i>	Ann	Poly	32	0.12	84.90	1	4
<i>Praxillella gracilis</i>	Ann	Poly	32	0.12	85.02	3	11
Terebellidae (LPIL)	Ann	Poly	32	0.12	85.14	16	57
<i>Batea carinata</i>	Art	Mala	31	0.12	85.26	11	39
<i>Pettiboneia duofurca</i>	Ann	Poly	31	0.12	85.38	11	39
<i>Pitar fulminatus</i>	Mol	Biva	31	0.12	85.50	9	32
<i>Isolda pulchella</i>	Ann	Poly	30	0.11	85.61	16	57
<i>Acteocina candei</i>	Mol	Gast	29	0.11	85.72	6	21
<i>Ehlersia ferrugina</i>	Ann	Poly	29	0.11	85.83	5	18
<i>Nereis</i> (LPIL)	Ann	Poly	29	0.11	85.94	10	36
<i>Aricidea suecica</i>	Ann	Poly	28	0.11	86.05	15	54
<i>Glycinde solitaria</i>	Ann	Poly	28	0.11	86.15	13	46
<i>Prionospio heterobranchia</i>	Ann	Poly	28	0.11	86.26	10	36
<i>Tagelus divisus</i>	Mol	Biva	28	0.11	86.37	4	14
Turbinidae genus A	Mol	Gast	28	0.11	86.47	6	21
<i>Vaunthompsonia</i> sp. B	Art	Mala	28	0.11	86.58	8	29
<i>Leptochelia forresti</i>	Art	Mala	27	0.10	86.68	3	11
Montacutidae (LPIL)	Mol	Biva	27	0.10	86.78	11	39
<i>Patelloidea pustulata</i>	Mol	Gast	27	0.10	86.88	6	21
<i>Accalathura crenulata</i>	Art	Mala	26	0.10	86.98	4	14
<i>Chevalia carpenteri</i>	Art	Mala	26	0.10	87.08	5	18
<i>Erichthonius rubicornis</i>	Art	Mala	26	0.10	87.18	3	11
Hesionidae (LPIL)	Ann	Poly	26	0.10	87.28	10	36
<i>Lucina multilineata</i>	Mol	Biva	26	0.10	87.38	9	32
<i>Paracaprella tenuis</i>	Art	Mala	26	0.10	87.48	4	14
<i>Psammokalliapseudes granulosus</i>	Art	Mala	26	0.10	87.58	4	14
<i>Dorvillea largidentis</i>	Ann	Poly	25	0.09	87.67	9	32
<i>Erichsonella floridana</i>	Art	Mala	25	0.09	87.77	6	21
<i>Linga amiantus</i>	Mol	Biva	25	0.09	87.86	7	25
<i>Odontosyllis enopla</i>	Ann	Poly	25	0.09	87.95	11	39
<i>Pagurus</i> (LPIL)	Art	Mala	25	0.09	88.05	11	39
<i>Paranebalia belizensis</i>	Art	Mala	25	0.09	88.14	8	29
<i>Xenanthura brevitelson</i>	Art	Mala	25	0.09	88.24	7	25
<i>Apseudes propinquus</i>	Art	Mala	24	0.09	88.33	6	21
<i>Ceratonereis</i> (LPIL)	Ann	Poly	24	0.09	88.42	9	32
<i>Eunice</i> (LPIL)	Ann	Poly	23	0.09	88.51	10	36
Gastropoda (LPIL)	Mol	Gast	23	0.09	88.60	14	50
<i>Laonice cirrata</i>	Ann	Poly	23	0.09	88.68	11	39
<i>Lyonsia hyalina</i>	Mol	Biva	23	0.09	88.77	6	21
<i>Lysidice notata</i>	Ann	Poly	23	0.09	88.86	10	36
<i>Prionospio multibranchiata</i>	Ann	Poly	23	0.09	88.94	7	25
<i>Schwartziella bryerea</i>	Mol	Gast	23	0.09	89.03	3	11
<i>Anamixis cavitura</i>	Art	Mala	22	0.08	89.12	4	14
Asciidiacea (LPIL)	Cho	Asci	22	0.08	89.20	8	29
<i>Atys sandersoni</i>	Mol	Gast	22	0.08	89.28	6	21
<i>Bittium</i> (LPIL)	Mol	Gast	22	0.08	89.37	1	4
<i>Calyptraea centralis</i>	Mol	Gast	22	0.08	89.45	7	25
<i>Cyclaspis pustulata</i>	Art	Mala	22	0.08	89.53	7	25
<i>Leitoscoloplos robustus</i>	Ann	Poly	22	0.08	89.62	6	21
<i>Leptosynapta multigranula</i>	Ech	Holo	22	0.08	89.70	2	7
<i>Nereis goagirana</i>	Ann	Poly	22	0.08	89.78	7	25
<i>Rissoina cancellata</i>	Mol	Gast	22	0.08	89.87	4	14

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Scolelepis texana</i>	Ann	Poly	22	0.08	89.95	6	21
<i>Turridae (LPIL)</i>	Mol	Gast	22	0.08	90.03	13	46
<i>Nassarius albus</i>	Mol	Gast	21	0.08	90.11	11	39
<i>Olivella (LPIL)</i>	Mol	Gast	21	0.08	90.19	7	25
<i>Ophiactis savignyi</i>	Ech	Ophi	21	0.08	90.27	6	21
<i>Owenia fusiformis</i>	Ann	Poly	21	0.08	90.35	6	21
<i>Scoloplos rubra</i>	Ann	Poly	21	0.08	90.43	9	32
<i>Xanthidae (LPIL)</i>	Art	Mala	21	0.08	90.51	10	36
<i>Antalis antillarum</i>	Mol	Scap	20	0.08	90.59	7	25
<i>Dulichiella appendiculata</i>	Art	Mala	20	0.08	90.66	7	25
<i>Melinna maculata</i>	Ann	Poly	20	0.08	90.74	6	21
<i>Paranebalia (LPIL)</i>	Art	Mala	20	0.08	90.82	6	21
<i>Cumella (LPIL)</i>	Art	Mala	19	0.07	90.89	9	32
<i>Edotia lyonsi</i>	Art	Mala	19	0.07	90.96	6	21
<i>Leucon americanus</i>	Art	Mala	19	0.07	91.03	1	4
<i>Lineidae (LPIL)</i>	Rhy	Anop	19	0.07	91.10	11	39
<i>Lysianopsis alba</i>	Art	Mala	19	0.07	91.18	5	18
<i>Phyllodocidae (LPIL)</i>	Ann	Poly	19	0.07	91.25	10	36
<i>Scoletoma impatiens</i>	Ann	Poly	19	0.07	91.32	7	25
<i>Turbonilla (LPIL)</i>	Mol	Gast	19	0.07	91.39	10	36
<i>Typosyllis armillaris</i>	Ann	Poly	19	0.07	91.46	7	25
<i>Capitella jonesi</i>	Ann	Poly	18	0.07	91.53	5	18
<i>Dipolydora socialis</i>	Ann	Poly	18	0.07	91.60	5	18
<i>Leucothoe spinicarpa</i>	Art	Mala	18	0.07	91.67	3	11
<i>Nuculana concentrica</i>	Mol	Biva	18	0.07	91.74	2	7
<i>Paramicrodeutopus myersi</i>	Art	Mala	18	0.07	91.81	4	14
<i>Diplodonta semiaspera</i>	Mol	Biva	17	0.06	91.87	5	18
<i>Gibberosus myersi</i>	Art	Mala	17	0.06	91.93	4	14
<i>Letiocapitella sp. A</i>	Ann	Poly	17	0.06	92.00	2	7
<i>Pinnixa (LPIL)</i>	Art	Mala	17	0.06	92.06	10	36
Porifera (LPIL)	Por	—	17	0.06	92.13	5	18
<i>Scoletoma (LPIL)</i>	Ann	Poly	17	0.06	92.19	6	21
<i>Sinelobus stanfordi</i>	Art	Mala	17	0.06	92.26	1	4
<i>Sphaerosyllis aciculata</i>	Ann	Poly	17	0.06	92.32	5	18
<i>Streblosoma hartmanae</i>	Ann	Poly	17	0.06	92.39	8	29
<i>Strombiformis (LPIL)</i>	Mol	Gast	17	0.06	92.45	9	32
<i>Aglaophamus verrilli</i>	Ann	Poly	16	0.06	92.51	5	18
<i>Anamaera hixonii</i>	Art	Mala	16	0.06	92.57	1	4
<i>Caecum cooperi</i>	Mol	Gast	16	0.06	92.63	2	7
<i>Leptosynapta (LPIL)</i>	Ech	Holo	16	0.06	92.69	4	14
<i>Oxyurostylis (LPIL)</i>	Art	Mala	16	0.06	92.75	8	29
<i>Pleuromeris tridentata</i>	Mol	Biva	16	0.06	92.81	4	14
<i>Pseudoleptocheilia sp. A</i>	Art	Mala	16	0.06	92.88	4	14
<i>Scyphoproctus platyproctus</i>	Ann	Poly	16	0.06	92.94	8	29
Bivalvia (LPIL)	Mol	Biva	15	0.06	92.99	6	21
<i>Circulus suppressus</i>	Mol	Gast	15	0.06	93.05	1	4
<i>Lucina radians</i>	Mol	Biva	15	0.06	93.11	5	18
<i>Photis (LPIL)</i>	Art	Mala	15	0.06	93.16	8	29
<i>Ampelisca schellenbergi</i>	Art	Mala	14	0.05	93.22	6	21
<i>Cerithium muscarum</i>	Mol	Gast	14	0.05	93.27	4	14
<i>Corbula contracta</i>	Mol	Biva	14	0.05	93.32	4	14
<i>Decamastus gracilis</i>	Ann	Poly	14	0.05	93.38	2	7
<i>Kinbergonuphis simoni</i>	Ann	Poly	14	0.05	93.43	2	7
<i>Limnoria (LPIL)</i>	Art	Mala	14	0.05	93.48	5	18
<i>Malmgreniella maccraryae</i>	Ann	Poly	14	0.05	93.54	9	32
<i>Nereiphylla fragilis</i>	Ann	Poly	14	0.05	93.59	9	32
<i>Notomastus latericeus</i>	Ann	Poly	14	0.05	93.64	6	21

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Polycirrus plumosus</i>	Ann	Poly	14	0.05	93.69	9	32
<i>Tharyx acutus</i>	Ann	Poly	14	0.05	93.75	5	18
<i>Anachis floridana</i>	Mol	Gast	13	0.05	93.80	3	11
<i>Glycera</i> sp. E	Ann	Poly	13	0.05	93.85	5	18
<i>Glyceridae</i> (LPIL)	Ann	Poly	13	0.05	93.90	5	18
<i>Melitidae</i> (LPIL)	Art	Mala	13	0.05	93.95	5	18
<i>Philine sagra</i>	Mol	Gast	13	0.05	93.99	6	21
<i>Corophium</i> (LPIL)	Art	Mala	12	0.05	94.04	5	18
<i>Dorvilleidae</i> (LPIL)	Ann	Poly	12	0.05	94.09	10	36
<i>Galathowenia oculata</i>	Ann	Poly	12	0.05	94.13	6	21
<i>Notomastus hemipodus</i>	Ann	Poly	12	0.05	94.18	7	25
<i>Phyllodocida</i> arenae	Ann	Poly	12	0.05	94.22	3	11
<i>Pycnogonida</i> (LPIL)	Art	Pycn	12	0.05	94.27	8	29
<i>Sabaco americanus</i>	Ann	Poly	12	0.05	94.31	5	18
<i>Spio pectiniferae</i>	Ann	Poly	12	0.05	94.36	6	21
<i>Syllis beneliahui</i>	Ann	Poly	12	0.05	94.40	4	14
<i>Zebina browniana</i>	Mol	Gast	12	0.05	94.45	6	21
<i>Ampelisca</i> sp. C	Art	Mala	11	0.04	94.49	2	7
<i>Campylaspis</i> sp. U	Art	Mala	11	0.04	94.53	6	21
<i>Capitella capitata</i>	Ann	Poly	11	0.04	94.57	7	25
<i>Ceratonereis mirabilis</i>	Ann	Poly	11	0.04	94.62	4	14
<i>Chaetozona</i> sp. O	Ann	Poly	11	0.04	94.66	5	18
<i>Notomastus</i> (LPIL)	Ann	Poly	11	0.04	94.70	8	29
<i>Saltipedes</i> sp. B	Art	Mala	11	0.04	94.74	4	14
<i>Trichobranchus glacialis</i>	Ann	Poly	11	0.04	94.78	5	18
<i>Glycymeris americana</i>	Mol	Biva	10	0.04	94.82	2	7
<i>Grubeosyllis rugulosa</i>	Ann	Poly	10	0.04	94.86	6	21
<i>Lumbrineris latreilli</i>	Ann	Poly	10	0.04	94.90	4	14
<i>Mytilidae</i> (LPIL)	Mol	Biva	10	0.04	94.94	5	18
<i>Neomegamphopus hiatus</i>	Art	Mala	10	0.04	94.97	2	7
<i>Odostomia</i> (LPIL)	Mol	Gast	10	0.04	95.01	6	21
<i>Panopeus occidentalis</i>	Art	Mala	10	0.04	95.05	4	14
<i>Piromis roberti</i>	Ann	Poly	10	0.04	95.09	6	21
<i>Rissoidae</i> (LPIL)	Mol	Gast	10	0.04	95.13	5	18
<i>Sphaeromatidae</i> (LPIL)	Art	Mala	10	0.04	95.16	6	21
<i>Aclididae</i> (LPIL)	Mol	Gast	9	0.03	95.20	6	21
<i>Ampeliscidae</i> (LPIL)	Art	Mala	9	0.03	95.23	2	7
<i>Carditamera floridana</i>	Mol	Biva	9	0.03	95.27	3	11
<i>Columbella rusticoides</i>	Mol	Gast	9	0.03	95.30	5	18
<i>Eunice unifrons</i>	Ann	Poly	9	0.03	95.33	4	14
<i>Hydrozoa</i> (LPIL)	Cni	Hydr	9	0.03	95.37	5	18
<i>Lysianassidae</i> (LPIL)	Art	Mala	9	0.03	95.40	6	21
<i>Sphaerosyllis perkinsi</i>	Ann	Poly	9	0.03	95.44	2	7
<i>Spionidae</i> (LPIL)	Ann	Poly	9	0.03	95.47	6	21
<i>Stylocheilus citrinus</i>	Mol	Gast	9	0.03	95.50	3	11
<i>Tellina sybaritica</i>	Mol	Biva	9	0.03	95.54	4	14
<i>Anachis lafresnayi</i>	Mol	Gast	8	0.03	95.57	3	11
<i>Ceratonereis longicirrata</i>	Ann	Poly	8	0.03	95.60	3	11
<i>Cerithium eburneum</i>	Mol	Gast	8	0.03	95.63	2	7
<i>Erichsonella attenuata</i>	Art	Mala	8	0.03	95.66	5	18
<i>Euceramus praelongus</i>	Art	Mala	8	0.03	95.69	2	7
<i>Eulimidae</i> (LPIL)	Mol	Gast	8	0.03	95.72	5	18
<i>Holothuroidea</i> (LPIL)	Ech	Holo	8	0.03	95.75	7	25
<i>Listriella barnardi</i>	Art	Mala	8	0.03	95.78	6	21
<i>Paguristes</i> (LPIL)	Art	Mala	8	0.03	95.81	5	18
<i>Plesiolembos rectangulatus</i>	Art	Mala	8	0.03	95.84	2	7
<i>Tegula lividomaculata</i>	Mol	Gast	8	0.03	95.87	7	25

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Ampelisca venetiensis</i>	Art	Mala	7	0.03	95.90	1	4
<i>Ampithoe (LPIL)</i>	Art	Mala	7	0.03	95.93	1	4
<i>Anodontia alba</i>	Mol	Biva	7	0.03	95.95	2	7
<i>Anomia simplex</i>	Mol	Biva	7	0.03	95.98	3	11
<i>Barantolla sp. A</i>	Ann	Poly	7	0.03	96.01	1	4
<i>Brachiopoda (LPIL)</i>	Bra	—	7	0.03	96.03	3	11
<i>Calyptaeidae (LPIL)</i>	Mol	Gast	7	0.03	96.06	5	18
<i>Cerapus sp. H</i>	Art	Mala	7	0.03	96.08	1	4
<i>Chione (LPIL)</i>	Mol	Biva	7	0.03	96.11	4	14
<i>Corophiidae (LPIL)</i>	Art	Mala	7	0.03	96.14	1	4
<i>Cumingia tellinoides</i>	Mol	Biva	7	0.03	96.16	4	14
<i>Decamastus (LPIL)</i>	Ann	Poly	7	0.03	96.19	2	7
<i>Elasmopus (LPIL)</i>	Art	Mala	7	0.03	96.22	3	11
<i>Eobrolgus spinosus</i>	Art	Mala	7	0.03	96.24	5	18
<i>Eunicidae (LPIL)</i>	Ann	Poly	7	0.03	96.27	5	18
<i>Globosolembos smithi</i>	Art	Mala	7	0.03	96.30	2	7
<i>Glycera americana</i>	Ann	Poly	7	0.03	96.32	2	7
<i>Laevicardium laevigatum</i>	Mol	Biva	7	0.03	96.35	3	11
<i>Lepidonotus variabilis</i>	Ann	Poly	7	0.03	96.38	3	11
<i>Megalomma (LPIL)</i>	Ann	Poly	7	0.03	96.40	2	7
<i>Nephlys incisa</i>	Ann	Poly	7	0.03	96.43	2	7
<i>Odostomia laevigata</i>	Mol	Gast	7	0.03	96.46	4	14
<i>Opisthodonta sp. B</i>	Ann	Poly	7	0.03	96.48	2	7
<i>Paramphipnoma sp. B</i>	Ann	Poly	7	0.03	96.51	4	14
<i>Polynoidae (LPIL)</i>	Ann	Poly	7	0.03	96.54	3	11
<i>Protohadzia schoennerae</i>	Art	Mala	7	0.03	96.56	4	14
<i>Spirorbidae (LPIL)</i>	Ann	Poly	7	0.03	96.59	1	4
<i>Tricolia bella</i>	Mol	Gast	7	0.03	96.62	3	11
<i>Tricolia thalassicola</i>	Mol	Gast	7	0.03	96.64	4	14
<i>Arcopsis adamsi</i>	Mol	Biva	6	0.02	96.67	2	7
<i>Bittiolum varium</i>	Mol	Gast	6	0.02	96.69	1	4
<i>Colomastix halichondriae</i>	Art	Mala	6	0.02	96.71	1	4
<i>Dexaminidae Genus A</i>	Art	Mala	6	0.02	96.73	3	11
<i>Diplodonta punctata</i>	Mol	Biva	6	0.02	96.76	1	4
<i>Leptocheilia sp. D</i>	Art	Mala	6	0.02	96.78	1	4
<i>Mesanthuria floridensis</i>	Art	Mala	6	0.02	96.80	4	14
<i>Nucutana (LPIL)</i>	Mol	Biva	6	0.02	96.82	2	7
<i>Olividae (LPIL)</i>	Mol	Gast	6	0.02	96.85	5	18
<i>Paguridae (LPIL)</i>	Art	Mala	6	0.02	96.87	3	11
<i>Pariphinotus seclusus</i>	Art	Mala	6	0.02	96.89	3	11
<i>Plakosyllis quadrioculata</i>	Ann	Poly	6	0.02	96.92	4	14
<i>Psammobiidae (LPIL)</i>	Mol	Biva	6	0.02	96.94	1	4
<i>Pteromeris perplana</i>	Mol	Biva	6	0.02	96.96	1	4
<i>Pyramidellidae (LPIL)</i>	Mol	Gast	6	0.02	96.98	3	11
<i>Sthenetais sp. A</i>	Ann	Poly	6	0.02	97.01	1	4
<i>Strombiformis hemphilli</i>	Mol	Gast	6	0.02	97.03	1	4
<i>Tellinidae (LPIL)</i>	Mol	Biva	6	0.02	97.05	4	14
<i>Triptychus niveus</i>	Mol	Gast	6	0.02	97.08	2	7
<i>Vitrinellidae (LPIL)</i>	Mol	Gast	6	0.02	97.10	1	4
<i>Apseudes sp. A</i>	Art	Mala	5	0.02	97.12	3	11
<i>Arene tricarinata</i>	Mol	Gast	5	0.02	97.14	4	14
<i>Aspidosiphon albus</i>	Sip	—	5	0.02	97.15	1	4
<i>Cyclaspis sp. N</i>	Art	Mala	5	0.02	97.17	5	18
<i>Dasybranchus (LPIL)</i>	Ann	Poly	5	0.02	97.19	2	7
<i>Dentimargo aureocincta</i>	Mol	Gast	5	0.02	97.21	5	18
<i>Dritonereis sp. E</i>	Ann	Poly	5	0.02	97.23	2	7
<i>Echinoidea (LPIL)</i>	Ech	Echi	5	0.02	97.25	1	4

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Eumida sanguinea</i>	Ann	Poly	5	0.02	97.27	4	14
<i>Heteromastus filiformis</i>	Ann	Poly	5	0.02	97.29	1	4
<i>Kalliapseudes bahamaensis</i>	Art	Mala	5	0.02	97.31	1	4
<i>Leiocapitella</i> sp. B	Ann	Poly	5	0.02	97.33	3	11
<i>Leitoscoloplos</i> (LPIL)	Ann	Poly	5	0.02	97.34	4	14
<i>Lucinoma filosum</i>	Mol	Biva	5	0.02	97.36	4	14
<i>Magelona pettiboneae</i>	Ann	Poly	5	0.02	97.38	4	14
<i>Megalomma bioculatum</i>	Ann	Poly	5	0.02	97.40	1	4
<i>Melphidippidae</i> (LPIL)	Art	Mala	5	0.02	97.42	3	11
<i>Photis pugnator</i>	Art	Mala	5	0.02	97.44	2	7
<i>Pista palmata</i>	Ann	Poly	5	0.02	97.46	1	4
<i>Thor manningi</i>	Art	Mala	5	0.02	97.48	2	7
<i>Trachypenaeus</i> (LPIL)	Art	Mala	5	0.02	97.50	4	14
<i>Trichobranchidae</i> (LPIL)	Ann	Poly	5	0.02	97.52	3	11
<i>Triphora nigrocincta</i>	Mol	Gast	5	0.02	97.53	2	7
<i>Turbonilla conradi</i>	Mol	Gast	5	0.02	97.55	2	7
<i>Acmaeidae</i> (LPIL)	Mol	Gast	4	0.02	97.57	2	7
<i>Asthenothaerus hemphilli</i>	Mol	Biva	4	0.02	97.58	2	7
<i>Bhawania heteroseta</i>	Ann	Poly	4	0.02	97.60	2	7
<i>Bowmaniella</i> (LPIL)	Art	Mala	4	0.02	97.61	3	11
<i>Caulieriella</i> (LPIL)	Ann	Poly	4	0.02	97.63	2	7
<i>Cirrophorus branchiatus</i>	Ann	Poly	4	0.02	97.64	3	11
<i>Corbula</i> (LPIL)	Mol	Biva	4	0.02	97.66	3	11
<i>Crassimella martinicensis</i>	Mol	Biva	4	0.02	97.67	1	4
<i>Dorvillea clavata</i>	Ann	Poly	4	0.02	97.69	1	4
<i>Exogone atlantica</i>	Ann	Poly	4	0.02	97.70	3	11
<i>Exogone dispar</i>	Ann	Poly	4	0.02	97.72	1	4
<i>Gammaropsis</i> (LPIL)	Art	Mala	4	0.02	97.74	2	7
<i>Glans dominguensis</i>	Mol	Biva	4	0.02	97.75	3	11
<i>Haminoea succinea</i>	Mol	Gast	4	0.02	97.77	3	11
<i>Heteromyysis nouveli</i>	Art	Mala	4	0.02	97.78	3	11
<i>Hippolyte zostericola</i>	Art	Mala	4	0.02	97.80	2	7
<i>Lioberus castaneus</i>	Mol	Biva	4	0.02	97.81	3	11
<i>Loimia medusa</i>	Ann	Poly	4	0.02	97.83	4	14
<i>Lucina pectinata</i>	Mol	Biva	4	0.02	97.84	2	7
<i>Marginellidae</i> (LPIL)	Mol	Gast	4	0.02	97.86	3	11
<i>Metaphoxus</i> sp. A	Art	Mala	4	0.02	97.87	3	11
<i>Mitrella lunata</i>	Mol	Gast	4	0.02	97.89	3	11
<i>Nereis micromma</i>	Ann	Poly	4	0.02	97.90	2	7
<i>Nudibranchia</i> (LPIL)	Mol	Gast	4	0.02	97.92	3	11
<i>Onuphidae</i> (LPIL)	Ann	Poly	4	0.02	97.93	2	7
<i>Ophelina cylindricaudata</i>	Ann	Poly	4	0.02	97.95	3	11
<i>Parapionosyllis uebelackeriae</i>	Ann	Poly	4	0.02	97.96	3	11
<i>Parthenope granulata</i>	Art	Mala	4	0.02	97.98	2	7
<i>Pectinaria regalis</i>	Ann	Poly	4	0.02	97.99	3	11
<i>Pilargis berkeleyae</i>	Ann	Poly	4	0.02	98.01	3	11
<i>Pinnidae</i> (LPIL)	Mol	Biva	4	0.02	98.02	3	11
<i>Pleurobranchiidae</i> Genus A	Mol	Gast	4	0.02	98.04	2	7
<i>Pseudovermilia occidentalis</i>	Ann	Poly	4	0.02	98.05	4	14
<i>Pusia gemmata</i>	Mol	Gast	4	0.02	98.07	4	14
<i>Rictaxis punctostriatus</i>	Mol	Gast	4	0.02	98.08	2	7
<i>Rildardanus laminosa</i>	Art	Mala	4	0.02	98.10	1	4
<i>Sabellaria</i> sp. A	Ann	Poly	4	0.02	98.11	3	11
<i>Scolelepis squamata</i>	Ann	Poly	4	0.02	98.13	3	11
<i>Semelidae</i> (LPIL)	Mol	Biva	4	0.02	98.14	4	14
<i>Sphaerosyllis</i> (LPIL)	Ann	Poly	4	0.02	98.16	2	7
<i>Sphaerosyllis taylori</i>	Ann	Poly	4	0.02	98.18	2	7

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Syllides bansei</i>	Ann	Poly	4	0.02	98.19	2	7
<i>Tagelus (LPIL)</i>	Mol	Biva	4	0.02	98.21	1	4
<i>Tellidora cristata</i>	Mol	Biva	4	0.02	98.22	2	7
<i>Transennella stimpsoni</i>	Mol	Biva	4	0.02	98.24	2	7
<i>Upogebia (LPIL)</i>	Art	Mala	4	0.02	98.25	2	7
<i>Acteocina (LPIL)</i>	Mol	Gast	3	0.01	98.26	3	11
<i>Ampelisca abdita</i>	Art	Mala	3	0.01	98.27	2	7
<i>Amphilochus neopolitanus</i>	Art	Mala	3	0.01	98.29	2	7
<i>Aphelochaeta (LPIL)</i>	Ann	Poly	3	0.01	98.30	3	11
<i>Arabella multidentata</i>	Ann	Poly	3	0.01	98.31	2	7
<i>Arabella mutans</i>	Ann	Poly	3	0.01	98.32	2	7
<i>Aspidosiphon (LPIL)</i>	Sip	—	3	0.01	98.33	2	7
<i>Batea (LPIL)</i>	Art	Mala	3	0.01	98.34	2	7
<i>Bowmaniella brasiliensis</i>	Art	Mala	3	0.01	98.35	1	4
<i>Bowmaniella portoricensis</i>	Art	Mala	3	0.01	98.36	2	7
<i>Branchiostoma (LPIL)</i>	Cho	Lept	3	0.01	98.38	1	4
<i>Campylaspis sp. Y</i>	Art	Mala	3	0.01	98.39	3	11
<i>Carditidae (LPIL)</i>	Mol	Biva	3	0.01	98.40	3	11
<i>Ceratonereis japonica</i>	Ann	Poly	3	0.01	98.41	1	4
<i>Conus (LPIL)</i>	Mol	Gast	3	0.01	98.42	2	7
<i>Conus jaspideus</i>	Mol	Gast	3	0.01	98.43	3	11
<i>Crassispira leucocyma</i>	Mol	Gast	3	0.01	98.44	2	7
<i>Cubanocuma sp. A</i>	Art	Mala	3	0.01	98.46	2	7
<i>Diopatra cuprea</i>	Ann	Poly	3	0.01	98.47	3	11
<i>Eunice multiclyindri</i>	Ann	Poly	3	0.01	98.48	1	4
<i>Golfingia (LPIL)</i>	Sip	—	3	0.01	98.49	1	4
<i>Golfingiidae (LPIL)</i>	Sip	—	3	0.01	98.50	1	4
<i>Goneplacidae (LPIL)</i>	Art	Mala	3	0.01	98.51	2	7
<i>Goniada maculata</i>	Ann	Poly	3	0.01	98.52	2	7
<i>Granulina ovaliformis</i>	Mol	Gast	3	0.01	98.54	3	11
<i>Hydrooides sp. E</i>	Ann	Poly	3	0.01	98.55	2	7
<i>Inermonephthys inermis</i>	Ann	Poly	3	0.01	98.56	2	7
<i>Laevicardium sybariticum</i>	Mol	Biva	3	0.01	98.57	2	7
<i>Litocorsa antennata</i>	Ann	Poly	3	0.01	98.58	2	7
<i>Lumbruneris sp. D</i>	Ann	Poly	3	0.01	98.59	2	7
<i>Macoma (LPIL)</i>	Mol	Biva	3	0.01	98.60	2	7
<i>Melita (LPIL)</i>	Art	Mala	3	0.01	98.62	2	7
<i>Modiolus americanus</i>	Mol	Biva	3	0.01	98.63	2	7
<i>Monoculodes sp. D</i>	Art	Mala	3	0.01	98.64	3	11
<i>Nassariidae (LPIL)</i>	Mol	Gast	3	0.01	98.65	1	4
<i>Neomegamphopus kalanii</i>	Art	Mala	3	0.01	98.66	3	11
<i>Notomastus americanus</i>	Ann	Poly	3	0.01	98.67	1	4
<i>Oxyurostylis lecroyae</i>	Art	Mala	3	0.01	98.68	2	7
<i>Oxyurostylis smithi</i>	Art	Mala	3	0.01	98.69	1	4
<i>Palaemonidae (LPIL)</i>	Art	Mala	3	0.01	98.71	3	11
<i>Pitar (LPIL)</i>	Mol	Biva	3	0.01	98.72	3	11
<i>Pseudopolydora diopatra</i>	Ann	Poly	3	0.01	98.73	1	4
<i>Rhodine (LPIL)</i>	Ann	Poly	3	0.01	98.74	1	4
<i>Scaphopoda (LPIL)</i>	Mol	Scap	3	0.01	98.75	1	4
<i>Semele nuculoides</i>	Mol	Biva	3	0.01	98.76	1	4
<i>Tectonatica pusilla</i>	Mol	Gast	3	0.01	98.77	3	11
<i>Tellina iris</i>	Mol	Biva	3	0.01	98.79	1	4
<i>Thor floridanus</i>	Art	Mala	3	0.01	98.80	1	4
<i>Trachypenaeus constrictus</i>	Art	Mala	3	0.01	98.81	2	7
<i>Varohius sp. A</i>	Art	Mala	3	0.01	98.82	2	7
<i>Aeginellidae (LPIL)</i>	Art	Mala	2	0.01	98.83	2	7
<i>Alpheus (LPIL)</i>	Art	Mala	2	0.01	98.84	2	7

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Alpheus floridanus</i>	Art	Mala	2	0.01	98.84	2	7
<i>Amphiduros</i> sp. A	Ann	Poly	2	0.01	98.85	1	4
<i>Amphipoda</i> (LPIL)	Art	Mala	2	0.01	98.86	2	7
<i>Ancistrosyllis carolinensis</i>	Ann	Poly	2	0.01	98.87	1	4
<i>Anomalocardia auberiana</i>	Mol	Biva	2	0.01	98.87	1	4
<i>Arca zebra</i>	Mol	Biva	2	0.01	98.88	1	4
<i>Architeconica nobilis</i>	Mol	Gast	2	0.01	98.89	1	4
<i>Autolytus</i> (LPIL)	Ann	Poly	2	0.01	98.90	2	7
<i>Automate</i> (LPIL)	Art	Mala	2	0.01	98.90	2	7
<i>Batea catharinensis</i>	Art	Mala	2	0.01	98.91	2	7
<i>Buccinidae</i> (LPIL)	Mol	Gast	2	0.01	98.92	2	7
<i>Caecum cycloferum</i>	Mol	Gast	2	0.01	98.93	1	4
<i>Campylaspis heardi</i>	Art	Mala	2	0.01	98.93	1	4
<i>Capitella</i> (LPIL)	Ann	Poly	2	0.01	98.94	2	7
<i>Cardiidae</i> (LPIL)	Mol	Biva	2	0.01	98.95	2	7
<i>Cerapus</i> (LPIL)	Art	Mala	2	0.01	98.96	2	7
<i>Chaetozone</i> (LPIL)	Ann	Poly	2	0.01	98.96	2	7
<i>Codakia costata</i>	Mol	Biva	2	0.01	98.97	2	7
<i>Craspedochiton hemphilli</i>	Mol	Polyp	2	0.01	98.98	2	7
<i>Crassinella lunulata</i>	Mol	Biva	2	0.01	98.99	2	7
<i>Crenella divaricata</i>	Mol	Biva	2	0.01	98.99	2	7
<i>Crepidula</i> (LPIL)	Mol	Gast	2	0.01	99.00	2	7
<i>Cyclaspis unicornis</i>	Art	Mala	2	0.01	99.01	2	7
<i>Cyclaspis varians</i>	Art	Mala	2	0.01	99.02	1	4
<i>Cyclinella tenuis</i>	Mol	Biva	2	0.01	99.03	1	4
<i>Demonax microphthalmus</i>	Ann	Poly	2	0.01	99.03	2	7
<i>Dispio uncinata</i>	Ann	Poly	2	0.01	99.04	2	7
<i>Dorvillea</i> (LPIL)	Ann	Poly	2	0.01	99.05	2	7
<i>Ebalia cariosa</i>	Art	Mala	2	0.01	99.06	2	7
<i>Eudevenopus honduranus</i>	Art	Mala	2	0.01	99.06	1	4
<i>Exogone caribensis</i>	Ann	Poly	2	0.01	99.07	1	4
<i>Glycera abranchiata</i>	Ann	Poly	2	0.01	99.08	2	7
<i>Goniada littorea</i>	Ann	Poly	2	0.01	99.09	1	4
<i>Goniadidae</i> (LPIL)	Ann	Poly	2	0.01	99.09	2	7
<i>Gouldia cerina</i>	Mol	Biva	2	0.01	99.10	2	7
<i>Grubeulepis mexicana</i>	Ann	Poly	2	0.01	99.11	2	7
<i>Harmothoe</i> (LPIL)	Ann	Poly	2	0.01	99.12	2	7
<i>Harmothoe imbricata</i>	Ann	Poly	2	0.01	99.12	2	7
<i>Hornellia tequestae</i>	Art	Mala	2	0.01	99.13	1	4
<i>Ischyroceridae</i> (LPIL)	Art	Mala	2	0.01	99.14	2	7
<i>Kinbergonuphis</i> sp. C	Ann	Poly	2	0.01	99.15	1	4
<i>Kurtziella atrostyla</i>	Mol	Gast	2	0.01	99.15	1	4
<i>Lanice conchilega</i>	Ann	Poly	2	0.01	99.16	2	7
<i>Listriella</i> sp. G	Art	Mala	2	0.01	99.17	1	4
<i>Magelona</i> (LPIL)	Ann	Poly	2	0.01	99.18	1	4
<i>Majidae</i> (LPIL)	Art	Mala	2	0.01	99.18	2	7
<i>Megalomma lobiferum</i>	Ann	Poly	2	0.01	99.19	2	7
<i>Melita elongata</i>	Art	Mala	2	0.01	99.20	1	4
<i>Metaprotella hummelincki</i>	Art	Mala	2	0.01	99.21	1	4
<i>Mysella</i> (LPIL)	Mol	Biva	2	0.01	99.21	1	4
<i>Nebalia bipes</i>	Art	Mala	2	0.01	99.22	2	7
<i>Nephrys picta</i>	Ann	Poly	2	0.01	99.23	2	7
<i>Nephys squamosa</i>	Ann	Poly	2	0.01	99.24	2	7
<i>Ophioderma</i> (LPIL)	Ech	Ophi	2	0.01	99.25	1	4
<i>Ophiophragmus</i> (LPIL)	Ech	Ophi	2	0.01	99.25	1	4
<i>Paguristes tortugae</i>	Art	Mala	2	0.01	99.26	2	7
<i>Panopeus</i> (LPIL)	Art	Mala	2	0.01	99.27	1	4

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
Pectinidae (LPIL)	Mol	Biva	2	0.01	99.28	1	4
<i>Penaeus duorarum</i>	Art	Mala	2	0.01	99.28	2	7
<i>Periclimenes iridescent</i>	Art	Mala	2	0.01	99.29	2	7
<i>Persicula catenata</i>	Mol	Gast	2	0.01	99.30	1	4
<i>Platynereis dumerilli</i>	Ann	Poly	2	0.01	99.31	2	7
<i>Podocerus kleidus</i>	Art	Mala	2	0.01	99.31	1	4
<i>Polycurrus</i> sp. G	Ann	Poly	2	0.01	99.32	1	4
<i>Prionospio cirrifera</i>	Ann	Poly	2	0.01	99.33	1	4
<i>Pyramidella</i> (LPIL)	Mol	Gast	2	0.01	99.34	2	7
<i>Semete</i> (LPIL)	Mol	Biva	2	0.01	99.34	1	4
<i>Semele proficia</i>	Mol	Biva	2	0.01	99.35	2	7
<i>Serolis mgrayi</i>	Art	Mala	2	0.01	99.36	2	7
<i>Syllis</i> (LPIL)	Ann	Poly	2	0.01	99.37	2	7
<i>Syllis gracilis</i>	Ann	Poly	2	0.01	99.37	2	7
<i>Synchelidium americanum</i>	Art	Mala	2	0.01	99.38	1	4
<i>Tellina nitens</i>	Mol	Biva	2	0.01	99.39	1	4
Tornidae (LPIL)	Mol	Gast	2	0.01	99.40	1	4
<i>Trachycardium muricatum</i>	Mol	Biva	2	0.01	99.40	2	7
Trochidae (LPIL)	Mol	Gast	2	0.01	99.41	2	7
<i>Alpheus estuariensis</i>	Art	Mala	1	0.00	99.42	1	4
<i>Amakusanthura signata</i>	Art	Mala	1	0.00	99.42	1	4
Ampharetidae (LPIL)	Ann	Poly	1	0.00	99.42	1	4
Amphilochidae (LPIL)	Art	Mala	1	0.00	99.43	1	4
Ampithoidae (LPIL)	Art	Mala	1	0.00	99.43	1	4
<i>Anactus</i> (LPIL)	Mol	Gast	1	0.00	99.43	1	4
<i>Ancistrosyllis jonesi</i>	Ann	Poly	1	0.00	99.44	1	4
<i>Antalis</i> (LPIL)	Mol	Scap	1	0.00	99.44	1	4
Anthuridae (LPIL)	Art	Mala	1	0.00	99.45	1	4
<i>Aonides paucibranchiata</i>	Ann	Poly	1	0.00	99.45	1	4
<i>Aphelochaeta marioni</i>	Ann	Poly	1	0.00	99.45	1	4
<i>Arene</i> (LPIL)	Mol	Gast	1	0.00	99.46	1	4
<i>Aricidea cerrutii</i>	Ann	Poly	1	0.00	99.46	1	4
<i>Astralium phoebium</i>	Mol	Gast	1	0.00	99.47	1	4
<i>Axiothella</i> sp. A	Ann	Poly	1	0.00	99.47	1	4
Bateidae (LPIL)	Art	Mala	1	0.00	99.47	1	4
<i>Bellaspira pentagonalis</i>	Mol	Gast	1	0.00	99.48	1	4
Bodotriidae (LPIL)	Art	Mala	1	0.00	99.48	1	4
<i>Brania wellfleetsis</i>	Ann	Poly	1	0.00	99.48	1	4
Bullidae (LPIL)	Mol	Gast	1	0.00	99.49	1	4
<i>Caecum</i> (LPIL)	Mol	Gast	1	0.00	99.49	1	4
<i>Caecum heladum</i>	Mol	Gast	1	0.00	99.50	1	4
<i>Caecum johnsoni</i>	Mol	Gast	1	0.00	99.50	1	4
<i>Campylaspis</i> (LPIL)	Art	Mala	1	0.00	99.50	1	4
Cephalocarida (LPIL)	Art	Ceph	1	0.00	99.51	1	4
<i>Ceradocus sheardi</i>	Art	Mala	1	0.00	99.51	1	4
<i>Ceratonereis irritabilis</i>	Ann	Poly	1	0.00	99.51	1	4
<i>Chaetozone</i> sp. A	Ann	Poly	1	0.00	99.52	1	4
<i>Chaetozone</i> sp. D	Ann	Poly	1	0.00	99.52	1	4
<i>Chione grus</i>	Mol	Biva	1	0.00	99.53	1	4
<i>Chione paphia</i>	Mol	Biva	1	0.00	99.53	1	4
<i>Chrysopetalum hernancortezae</i>	Ann	Poly	1	0.00	99.53	1	4
<i>Cirrophorus</i> (LPIL)	Ann	Poly	1	0.00	99.54	1	4
<i>Cleantis planicauda</i>	Art	Mala	1	0.00	99.54	1	4
<i>Colomastix</i> (LPIL)	Art	Mala	1	0.00	99.54	1	4
<i>Corbula caribaea</i>	Mol	Biva	1	0.00	99.55	1	4
<i>Corbula</i> sp. C	Mol	Biva	1	0.00	99.55	1	4
<i>Crassimella</i> (LPIL)	Mol	Biva	1	0.00	99.56	1	4

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Cryoturris cerinella</i>	Mol	Gast	1	0.00	99.56	1	4
<i>Cyclaspis (LPIL)</i>	Art	Mala	1	0.00	99.56	1	4
<i>Cylichnella tenuis</i>	Mol	Gast	1	0.00	99.57	1	4
<i>Decapoda (LPIL)</i>	Art	Mala	1	0.00	99.57	1	4
<i>Dexaminidae (LPIL)</i>	Art	Mala	1	0.00	99.58	1	4
<i>Dosinia discus</i>	Mol	Biva	1	0.00	99.58	1	4
<i>Duasmodactyla seguroensis</i>	Ech	Holo	1	0.00	99.58	1	4
<i>Ebalia stimpsonii</i>	Art	Mala	1	0.00	99.59	1	4
<i>Echinodermata (LPIL)</i>	Ech	—	1	0.00	99.59	1	4
<i>Elysia evelinae</i>	Mol	Gast	1	0.00	99.59	1	4
<i>Epialtus dilatus</i>	Art	Mala	1	0.00	99.60	1	4
<i>Epitonidae (LPIL)</i>	Mol	Gast	1	0.00	99.60	1	4
<i>Eunice sp. L</i>	Ann	Poly	1	0.00	99.61	1	4
<i>Eurydice convexa</i>	Art	Mala	1	0.00	99.61	1	4
<i>Euryplax nitida</i>	Art	Mala	1	0.00	99.61	1	4
<i>Excorallana delaneyi</i>	Art	Mala	1	0.00	99.62	1	4
<i>Exogone (LPIL)</i>	Ann	Poly	1	0.00	99.62	1	4
<i>Fallotritella biscaynensis</i>	Art	Mala	1	0.00	99.62	1	4
<i>Fasciolariidae (LPIL)</i>	Mol	Gast	1	0.00	99.63	1	4
<i>Favorinidae (LPIL)</i>	Mol	Gast	1	0.00	99.63	1	4
<i>Gammaropsis sp. 1</i>	Art	Mala	1	0.00	99.64	1	4
<i>Glycera sp. D</i>	Ann	Poly	1	0.00	99.64	1	4
<i>Glycimerididae (LPIL)</i>	Mol	Biva	1	0.00	99.64	1	4
<i>Glycymeris (LPIL)</i>	Mol	Biva	1	0.00	99.65	1	4
<i>Goniada teres</i>	Ann	Poly	1	0.00	99.65	1	4
<i>Grubeosyllis clavata</i>	Ann	Poly	1	0.00	99.65	1	4
<i>Grubeulepis augeneri</i>	Ann	Poly	1	0.00	99.66	1	4
<i>Gyptis (LPIL)</i>	Ann	Poly	1	0.00	99.66	1	4
<i>Haminoea (LPIL)</i>	Mol	Gast	1	0.00	99.67	1	4
<i>Heteromysis (LPIL)</i>	Art	Mala	1	0.00	99.67	1	4
<i>Heteromysis formosa</i>	Art	Mala	1	0.00	99.67	1	4
<i>Heteropodarke lyonsi</i>	Ann	Poly	1	0.00	99.68	1	4
<i>Hoplophenoides obesa</i>	Art	Mala	1	0.00	99.68	1	4
<i>Hydroides (LPIL)</i>	Ann	Poly	1	0.00	99.69	1	4
<i>Hydroides bispinosa</i>	Ann	Poly	1	0.00	99.69	1	4
<i>Hydroides dianthus</i>	Ann	Poly	1	0.00	99.69	1	4
<i>Hypsicomus phaeotaenia</i>	Ann	Poly	1	0.00	99.70	1	4
<i>Kallitapseudes (LPIL)</i>	Art	Mala	1	0.00	99.70	1	4
<i>Laevicardium (LPIL)</i>	Mol	Biva	1	0.00	99.70	1	4
<i>Laevicardium pictum</i>	Mol	Biva	1	0.00	99.71	1	4
<i>Leuconidae (LPIL)</i>	Art	Mala	1	0.00	99.71	1	4
<i>Lima pellucida</i>	Mol	Biva	1	0.00	99.72	1	4
<i>Limidae (LPIL)</i>	Mol	Biva	1	0.00	99.72	1	4
<i>Limnoria simulata</i>	Art	Mala	1	0.00	99.72	1	4
<i>Lithopoma tectum</i>	Mol	Gast	1	0.00	99.73	1	4
<i>Lucapinella limatula</i>	Mol	Gast	1	0.00	99.73	1	4
<i>Lumbrineris (LPIL)</i>	Ann	Poly	1	0.00	99.73	1	4
<i>Lumbrineris sp. C</i>	Ann	Poly	1	0.00	99.74	1	4
<i>Macoma tenta</i>	Mol	Biva	1	0.00	99.74	1	4
<i>Mangelia bandella</i>	Mol	Gast	1	0.00	99.75	1	4
<i>Marginella (LPIL)</i>	Mol	Gast	1	0.00	99.75	1	4
<i>Marginella apicina</i>	Mol	Gast	1	0.00	99.75	1	4
<i>Marphysa (LPIL)</i>	Ann	Poly	1	0.00	99.76	1	4
<i>Melanella arcuata</i>	Mol	Gast	1	0.00	99.76	1	4
<i>Mesorhoea sexspinosa</i>	Art	Mala	1	0.00	99.76	1	4
<i>Metatiron triocellatus</i>	Art	Mala	1	0.00	99.77	1	4
<i>Mexieulepis weberi</i>	Ann	Poly	1	0.00	99.77	1	4

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
Mitridae (LPIL)	Mol	Gast	1	0.00	99.78	1	4
<i>Monoculodes</i> (LPIL)	Art	Mala	1	0.00	99.78	1	4
<i>Mooreonuphis pallidula</i>	Ann	Poly	1	0.00	99.78	1	4
<i>Murex recurvirostris</i>	Mol	Gast	1	0.00	99.79	1	4
<i>Myriowenia</i> sp. A	Ann	Poly	1	0.00	99.79	1	4
Mysidacea (LPIL)	Art	Mala	1	0.00	99.80	1	4
Mysidae (LPIL)	Art	Mala	1	0.00	99.80	1	4
<i>Natica canrena</i>	Mol	Gast	1	0.00	99.80	1	4
<i>Nereimyra</i> sp. B	Ann	Poly	1	0.00	99.81	1	4
<i>Nereis succinea</i>	Ann	Poly	1	0.00	99.81	1	4
<i>Notomastus daueri</i>	Ann	Poly	1	0.00	99.81	1	4
<i>Nototanais</i> (LPIL)	Art	Mala	1	0.00	99.82	1	4
<i>Nuculana acuta</i>	Mol	Biva	1	0.00	99.82	1	4
Oedicerotidae (LPIL)	Art	Mala	1	0.00	99.83	1	4
<i>Ophiocomella ophiactoides</i>	Ech	Ophi	1	0.00	99.83	1	4
<i>Ophiolepis</i> (LPIL)	Ech	Ophi	1	0.00	99.83	1	4
<i>Ophiopsila vittata</i>	Ech	Ophi	1	0.00	99.84	1	4
<i>Ophiotigma isocanthum</i>	Ech	Ophi	1	0.00	99.84	1	4
<i>Opisthosyllis longidentata</i>	Ann	Poly	1	0.00	99.84	1	4
<i>Oxyurostylis</i> sp. B	Art	Mala	1	0.00	99.85	1	4
Paraoniidae (LPIL)	Ann	Poly	1	0.00	99.85	1	4
<i>Parthenope</i> (LPIL)	Art	Mala	1	0.00	99.86	1	4
<i>Patellida</i> (LPIL)	Mol	Gast	1	0.00	99.86	1	4
<i>Pectinaria gouldii</i>	Ann	Poly	1	0.00	99.86	1	4
<i>Periclimenes</i> (LPIL)	Art	Mala	1	0.00	99.87	1	4
<i>Pherusa inflata</i>	Ann	Poly	1	0.00	99.87	1	4
Pholadidae (LPIL)	Mol	Biva	1	0.00	99.87	1	4
<i>Pista</i> (LPIL)	Ann	Poly	1	0.00	99.88	1	4
<i>Pitho</i> (LPIL)	Art	Mala	1	0.00	99.88	1	4
Pleurobranchiidae (LPIL)	Mol	Gast	1	0.00	99.89	1	4
<i>Polydora cornuta</i>	Ann	Poly	1	0.00	99.89	1	4
<i>Polygordius</i> (LPIL)	Ann	Poly	1	0.00	99.89	1	4
<i>Processa</i> (LPIL)	Art	Mala	1	0.00	99.90	1	4
Processidae (LPIL)	Art	Mala	1	0.00	99.90	1	4
<i>Pseudopolydora</i> sp. A	Ann	Poly	1	0.00	99.91	1	4
<i>Pyrgocythara coxi</i>	Mol	Gast	1	0.00	99.91	1	4
<i>Questa caudicirra</i>	Ann	Poly	1	0.00	99.91	1	4
<i>Rhodine</i> sp. A	Ann	Poly	1	0.00	99.92	1	4
<i>Rocinela signata</i>	Art	Mala	1	0.00	99.92	1	4
<i>Saltipedis</i> (LPIL)	Art	Mala	1	0.00	99.92	1	4
<i>Saltipedis</i> sp. A	Art	Mala	1	0.00	99.93	1	4
Scalibregmatidae (LPIL)	Ann	Poly	1	0.00	99.93	1	4
Scaphandridae (LPIL)	Mol	Gast	1	0.00	99.94	1	4
<i>Schwengelia hendersoni</i>	Mol	Gast	1	0.00	99.94	1	4
<i>Scoloplos</i> (LPIL)	Ann	Poly	1	0.00	99.94	1	4
<i>Sotenocera</i> (LPIL)	Art	Mala	1	0.00	99.95	1	4
<i>Sphaerosyllis glandulata</i>	Ann	Poly	1	0.00	99.95	1	4
<i>Spiophanes bombyx</i>	Ann	Poly	1	0.00	99.95	1	4
<i>Stenothoe</i> (LPIL)	Art	Mala	1	0.00	99.96	1	4
<i>Sthenolepis</i> sp. A	Ann	Poly	1	0.00	99.96	1	4
<i>Syllides</i> (LPIL)	Ann	Poly	1	0.00	99.97	1	4
<i>Syllides fulvus</i>	Ann	Poly	1	0.00	99.97	1	4
Synopiidae (LPIL)	Art	Mala	1	0.00	99.97	1	4
<i>Tellina alternata</i>	Mol	Biva	1	0.00	99.98	1	4
<i>Terebellides</i> (LPIL)	Ann	Poly	1	0.00	99.98	1	4
<i>Thor amboinensis</i>	Art	Mala	1	0.00	99.98	1	4
<i>Turbonilla interrupta</i>	Mol	Gast	1	0.00	99.99	1	4

Table 2. Continued:

Taxon Name	Phylum	Class	No. of Individuals	% Total	Cumulative %	Station Occurrence	Station % Occurrence
<i>Vaunthompsonia</i> (LPIL)	Art	Mala	1	0.00	99.99	1	4
<i>Volvarina avena</i>	Mol	Gast	1	0.00	100.00	1	4
<i>Volvarina avenacea</i>	Mol	Gast	1	0.00	100.00	1	4

Taxa Key:**Phylum****Class**

Ann = Annelida
 Olig = Oligochaeta
 Poly = Polychaeta
 Art = Arthropoda
 Ceph = Cephalocarida
 Mala = Malacostraca
 Pycn = Pycnogonida
 Bra = Brachiopoda
 Cho = Chordata
 Asci = Ascidiacea
 Lept = Leptocardia

Cni = Cnidaria
 Anth = Anthozoa
 Hydr = Hydrozoa
 Ech = Echinodermata
 Echi = Echinoidea
 Holo = Holothuroidea
 Ophi = Ophiuroidae
 Mol = Mollusca
 Biva = Bivalvia
 Gast = Gastropoda
 Polyp = Polyplacophora
 Scap = Scaphopoda

Por = Porifera
 Rhy = Rhynchocoela
 Anop = Anopla
 Sip = Sipuncula

Table 3. Summary of overall abundance of major benthic macrofaunal taxonomic groups for the Florida Bay stations, August 2000.

Taxa	Total No. Taxa	% Total	Total No. Individuals	% Total
Annelida				
Oligochaeta	1	0.15	1,195	4.53
Polychaeta	254	36.97	14,666	55.64
Mollusca				
Bivalvia	88	12.81	1,820	6.90
Gastropoda	114	16.59	2,730	10.36
Polyplacophora	2	0.29	80	0.30
Scaphopoda	3	0.44	24	0.09
Arthropoda				
Cephalocarida	1	0.15	1	0.00
Malacostraca	192	27.95	3,686	13.98
Pycnogonida	1	0.15	12	0.05
Echinodermata				
Echinoidea	1	0.15	5	0.02
Holothuroidea	4	0.58	47	0.18
Ophiuroidea	9	1.31	240	0.91
Other Taxa	17	2.47	1,853	7.03
	687		26,359	

Table 4. Summary of abundance of majorbenthic macrofaunal taxonomic groups for the Florida Bay stations, August 2000.

Station	Phylum	No. of Taxa	% of Total	No. of Individuals	% of Total
LR-19	Annelida	41	46.59	807	78.35
	Mollusca	17	19.32	74	7.18
	Arthropoda	22	25.00	89	8.64
	Echinoderm ϵ	1	1.14	1	0.10
	Rhynchocoel	3	3.41	19	1.84
	Sipuncula	2	2.27	34	3.30
	Other Taxa	2	2.27	6	0.58
	TOTAL	88		1030	
LR-21	Annelida	32	54.24	373	60.75
	Mollusca	15	25.42	125	20.36
	Arthropoda	8	13.56	79	12.87
	Echinoderm ϵ	0	0.00	0	0.00
	Rhynchocoel	1	1.69	5	0.81
	Sipuncula	1	1.69	25	4.07
	Other Taxa	2	3.39	7	1.14
	TOTAL	59		614	
LR-23	Annelida	18	46.15	1069	87.55
	Mollusca	6	15.38	13	1.06
	Arthropoda	10	25.64	51	4.18
	Echinoderm ϵ	1	2.56	8	0.66
	Rhynchocoel	1	2.56	62	5.08
	Sipuncula	1	2.56	14	1.15
	Other Taxa	2	5.13	4	0.33
	TOTAL	39		1221	
LR-25	Annelida	40	41.24	371	49.01
	Mollusca	26	26.80	221	29.19
	Arthropoda	22	22.68	112	14.80
	Echinoderm ϵ	2	2.06	5	0.66
	Rhynchocoel	2	2.06	18	2.38
	Sipuncula	3	3.09	19	2.51
	Other Taxa	2	2.06	11	1.45
	TOTAL	97		757	
LR-27	Annelida	73	48.34	2545	86.68
	Mollusca	38	25.17	209	7.12
	Arthropoda	32	21.19	121	4.12
	Echinoderm ϵ	2	1.32	15	0.51
	Rhynchocoel	2	1.32	37	1.26
	Sipuncula	2	1.32	5	0.17
	Other Taxa	2	1.32	4	0.14
	TOTAL	151		2936	

Table 4. Continued:

Station	Phylum	No. of Taxa	% of Total	No. of Individuals	% of Total
WI 00LR-29	Annelida	78	52.70	1214	74.30
	Mollusca	34	22.97	278	17.01
	Arthropoda	29	19.59	50	3.06
	Echinodermata	1	0.68	1	0.06
	Rhynchocoela	3	2.03	64	3.92
	Sipuncula	2	1.35	24	1.47
	Other Taxa	1	0.68	3	0.18
	TOTAL	148		1634	
WI 00LR-30	Annelida	35	45.45	384	72.87
	Mollusca	16	20.78	52	9.87
	Arthropoda	22	28.57	80	15.18
	Echinodermata	1	1.30	2	0.38
	Rhynchocoela	1	1.30	1	0.19
	Sipuncula	1	1.30	1	0.19
	Other Taxa	1	1.30	7	1.33
	TOTAL	77		527	
WI 00LR-31	Annelida	31	49.21	97	38.49
	Mollusca	9	14.29	20	7.94
	Arthropoda	15	23.81	112	44.44
	Echinodermata	3	4.76	4	1.59
	Rhynchocoela	2	3.17	5	1.98
	Sipuncula	2	3.17	8	3.17
	Other Taxa	1	1.59	6	2.38
	TOTAL	63		252	
WI 00LR-32	Annelida	50	40.98	337	35.81
	Mollusca	43	35.25	464	49.31
	Arthropoda	22	18.03	48	5.10
	Echinodermata	2	1.64	2	0.21
	Rhynchocoela	2	1.64	46	4.89
	Sipuncula	2	1.64	41	4.36
	Other Taxa	1	0.82	3	0.32
	TOTAL	122		941	
WI 00LR-33	Annelida	43	47.25	400	48.13
	Mollusca	18	19.78	179	21.54
	Arthropoda	23	25.27	132	15.88
	Echinodermata	2	2.20	10	1.20
	Rhynchocoela	2	2.20	19	2.29
	Sipuncula	2	2.20	90	10.83
	Other Taxa	1	1.10	1	0.12
	TOTAL	91		831	

Table 4. Continued:

Station	Phylum	No. of Taxa	% of Total	No. of Individuals	% of Total
WI 00LR-34	Annelida	48	55.17	469	64.96
	Mollusca	13	14.94	100	13.85
	Arthropoda	19	21.84	112	15.51
	Echinodermata	1	1.15	3	0.42
	Rhynchocoela	2	2.30	10	1.39
	Sipuncula	2	2.30	21	2.91
	Other Taxa	2	2.30	7	0.97
	TOTAL	87		722	
WI 00LR-35	Annelida	63	48.46	646	66.80
	Mollusca	38	29.23	200	20.68
	Arthropoda	22	16.92	67	6.93
	Echinodermata	3	2.31	9	0.93
	Rhynchocoela	2	1.54	38	3.93
	Sipuncula	1	0.77	5	0.52
	Other Taxa	1	0.77	2	0.21
	TOTAL	130		967	
WI 00LR-36	Annelida	64	43.54	234	24.00
	Mollusca	50	34.01	495	50.77
	Arthropoda	27	18.37	101	10.36
	Echinodermata	1	0.68	2	0.21
	Rhynchocoela	2	1.36	42	4.31
	Sipuncula	1	0.68	99	10.15
	Other Taxa	2	1.36	2	0.21
	TOTAL	147		975	
WI 00LR-37	Annelida	63	44.68	397	42.92
	Mollusca	45	31.91	400	43.24
	Arthropoda	25	17.73	76	8.22
	Echinodermata	2	1.42	9	0.97
	Rhynchocoela	2	1.42	15	1.62
	Sipuncula	2	1.42	26	2.81
	Other Taxa	2	1.42	2	0.22
	TOTAL	141		925	
WI 00LR-38	Annelida	74	50.68	466	59.06
	Mollusca	41	28.08	183	23.19
	Arthropoda	23	15.75	51	6.46
	Echinodermata	2	1.37	18	2.28
	Rhynchocoela	3	2.05	34	4.31
	Sipuncula	1	0.68	35	4.44
	Other Taxa	2	1.37	2	0.25
	TOTAL	146		789	

Table 4. Continued:

Station	Phylum	No. of Taxa	% of Total	No. of Individuals	% of Total
WI 00LR-39	Annelida	65	41.40	417	53.19
	Mollusca	48	30.57	228	29.08
	Arthropoda	35	22.29	61	7.78
	Echinodermata	2	1.27	24	3.06
	Rhynchocoela	2	1.27	13	1.66
	Sipuncula	2	1.27	33	4.21
	Other Taxa	3	1.91	8	1.02
	TOTAL	157		784	
WI 00LR-40	Annelida	72	45.57	770	63.43
	Mollusca	38	24.05	127	10.46
	Arthropoda	38	24.05	204	16.80
	Echinodermata	4	2.53	20	1.65
	Rhynchocoela	3	1.90	19	1.57
	Sipuncula	2	1.27	62	5.11
	Other Taxa	1	0.63	12	0.99
	TOTAL	158		1214	
WI 00LR-41	Annelida	51	57.95	212	60.92
	Mollusca	17	19.32	35	10.06
	Arthropoda	13	14.77	54	15.52
	Echinodermata	2	2.27	9	2.59
	Rhynchocoela	2	2.27	10	2.87
	Sipuncula	2	2.27	26	7.47
	Other Taxa	1	1.14	2	0.57
	TOTAL	88		348	
WI 00LR-42	Annelida	71	48.97	751	66.99
	Mollusca	31	21.38	155	13.83
	Arthropoda	36	24.83	151	13.47
	Echinodermata	1	0.69	2	0.18
	Rhynchocoela	2	1.38	13	1.16
	Sipuncula	2	1.38	12	1.07
	Other Taxa	2	1.38	37	3.30
	TOTAL	145		1121	
WI 00LR-45	Annelida	69	53.49	300	52.63
	Mollusca	31	24.03	164	28.77
	Arthropoda	20	15.50	40	7.02
	Echinodermata	3	2.33	18	3.16
	Rhynchocoela	3	2.33	18	3.16
	Sipuncula	1	0.78	18	3.16
	Other Taxa	2	1.55	12	2.11
	TOTAL	129		570	

Table 4. Continued:

Station	Phylum	No. of Taxa	% of Total	No. of Individuals	% of Total
WI 00LR-46	Annelida	64	55.65	363	47.64
	Mollusca	30	26.09	191	25.07
	Arthropoda	14	12.17	28	3.67
	Echinodermata	3	2.61	15	1.97
	Rhynchocoela	2	1.74	11	1.44
	Sipuncula	1	0.87	148	19.42
	Other Taxa	1	0.87	6	0.79
	TOTAL	115		762	
WI 00LR-47	Annelida	47	47.00	318	65.57
	Mollusca	19	19.00	47	9.69
	Arthropoda	22	22.00	70	14.43
	Echinodermata	3	3.00	5	1.03
	Rhynchocoela	3	3.00	16	3.30
	Sipuncula	2	2.00	9	1.86
	Other Taxa	4	4.00	20	4.12
	TOTAL	100		485	
WI 00LR-48	Annelida	72	54.96	437	67.23
	Mollusca	24	18.32	73	11.23
	Arthropoda	26	19.85	57	8.77
	Echinodermata	3	2.29	13	2.00
	Rhynchocoela	3	2.29	26	4.00
	Sipuncula	2	1.53	39	6.00
	Other Taxa	1	0.76	5	0.77
	TOTAL	131		650	
WI 00LR-49	Annelida	60	60.61	186	52.39
	Mollusca	20	20.20	43	12.11
	Arthropoda	13	13.13	72	20.28
	Echinodermata	1	1.01	4	1.13
	Rhynchocoela	3	3.03	15	4.23
	Sipuncula	1	1.01	30	8.45
	Other Taxa	1	1.01	5	1.41
	TOTAL	99		355	
WI 00LR-50	Annelida	68	44.44	503	51.54
	Mollusca	37	24.18	202	20.70
	Echinodermata	1	0.65	10	1.02
	Arthropoda	41	26.80	169	17.32
	Rhynchocoela	3	1.96	15	1.54
	Sipuncula	2	1.31	76	7.79
	Other Taxa	1	0.65	1	0.10
	TOTAL	153		976	

Table 4. Continued:

Station	Phylum	No. of Taxa	% of Total	No. of Individuals	% of Total
WI 00LR-51	Annelida	84	52.83	1063	71.82
	Mollusca	30	18.87	64	4.32
	Arthropoda	34	21.38	240	16.22
	Echinodermata	4	2.52	30	2.03
	Rhynchocoela	2	1.26	21	1.42
	Sipuncula	3	1.89	36	2.43
	Other Taxa	2	1.26	26	1.76
	TOTAL	159		1480	
WI 00LR-52	Annelida	72	42.86	460	43.40
	Mollusca	40	23.81	193	18.21
	Arthropoda	44	26.19	298	28.11
	Echinodermata	7	4.17	39	3.68
	Rhynchocoela	2	1.19	17	1.60
	Sipuncula	1	0.60	41	3.87
	Other Taxa	2	1.19	12	1.13
	TOTAL	168		1060	
WI 00MR-12	Annelida	56	37.33	272	18.98
	Mollusca	29	19.33	119	8.30
	Arthropoda	51	34.00	974	67.97
	Echinodermata	4	2.67	15	1.05
	Rhynchocoela	3	2.00	29	2.02
	Sipuncula	3	2.00	12	0.84
	Other Taxa	4	2.67	12	0.84
	TOTAL	150		1433	

Table 5. Percentage abundance of dominant benthic macrofaunal taxa (>10% of the total) for the Florida Bay stations, August 2000.

Taxa	LR-19	LR-21	LR-23	LR-25	LR-27	LR-29	LR-30	LR-31	LR-32	LR-33	LR-34	LR-35	LR-36	LR-37	LR-38
Annelida															
Oligochaeta															
Tubificidae (LPIL)					10.3					38.3					10.7
Polychaeta															
<i>Exogone rohani</i>	33.4		10.1												29.4
<i>Fabricinuda trilobata</i>						80.1		35.4	13.2						
<i>Mediomastus</i> (LPIL)							18.2								
<i>Monticellina dorsobranchialis</i>								20.0							
Nereididae (LPIL)				10.7											
Arthropoda															
Malacostraca															
<i>Ampelisca vadorum</i>															
<i>Hargeria rapax</i>										11.5					
<i>Leptocheilia</i> (LPIL)															
<i>Shoemakerella cubensis</i>									10.7						
Mollusca															
Bivalvia															
<i>Chione cancellata</i>											12.9				
<i>Nucula aegeanis</i>															
Gastropoda															
<i>Caecum floridanum</i>											14.6				
<i>Caecum pulchellum</i>		14.0										10.7			
<i>Schwartziella catesbyana</i>													12.9	13.4	
Sipuncula															
Sipuncula (LPIL)													10.2		

Table 5. Continued:

Taxa	LR-39	LR-40	LR-41	LR-42	LR-45	LR-46	LR-47	LR-48	LR-49	LR-50	LR-51	LR-52	MR 12
Annelida													
Oligochaeta													
<i>Tubificidae (LPIL)</i>						10.9	16.1						
Polychaeta													
<i>Exogone rohani</i>	16.0	12.1	12.0					10.0		12.7	15.1		
<i>Fabricinuda trilobata</i>											12.2		
<i>Mediomastus (LPIL)</i>													
<i>Monticellina dorsobranchialis</i>													
Nereididae (LPIL)													
Arthropoda													
Malacostraca													
<i>Ampelisca vadorum</i>											14.6		
<i>Hargeria rapax</i>													
<i>Leptocheilia (LPIL)</i>									13.2			26.3	
<i>Shoemakerella cubensis</i>													
Mollusca													
Bivalvia													
<i>Chione cancellata</i>													
<i>Nucula aegaeensis</i>													
Gastropoda													
<i>Caecum floridanum</i>													
<i>Caecum pulchellum</i>													
<i>Schwartziella catesbyana</i>													
Sipuncula													
Sipuncula (LPIL)						19.4							

Table 6. Summary of the benthic macrofaunal data for the Florida Bay stations, August 2000.

Table 6. Continued:

Table 7. Statistical analysis for density and taxa differences among stations for the Florida Bay stations, August 2000.

DENSITY DATA

Shapiro-Wilk W Test for Normality

W= 0.97 Prob < W = 0.0946

ANOVA Table

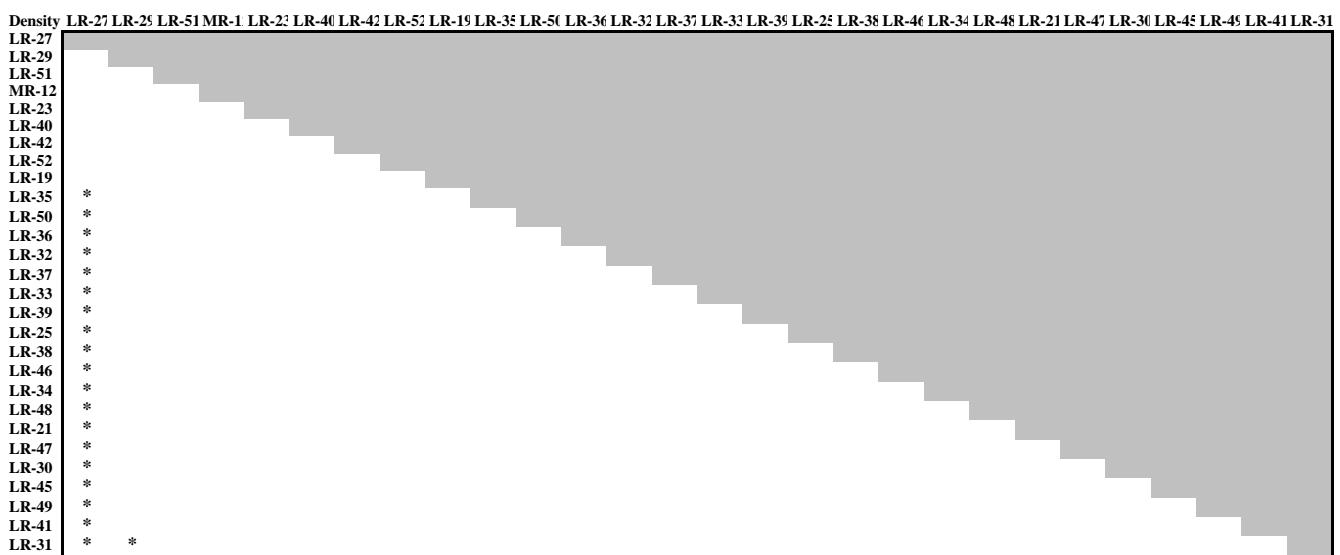
Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Model	27	39775.662	1473.17	3.4519	<.0001
Error	56	23899.145	426.77		
Total	83	63674.807			

TAXA DATA

Shapiro-Wilk W Test for Normality

W= 0.95 Prob < W = 0.01

Table 8. Density post-hoc results for the St. John's River stations, July 2000.



* indicates pairs of means that are significantly different.

Figure 1. Station locations for the Florida Bay stations, August 2000.

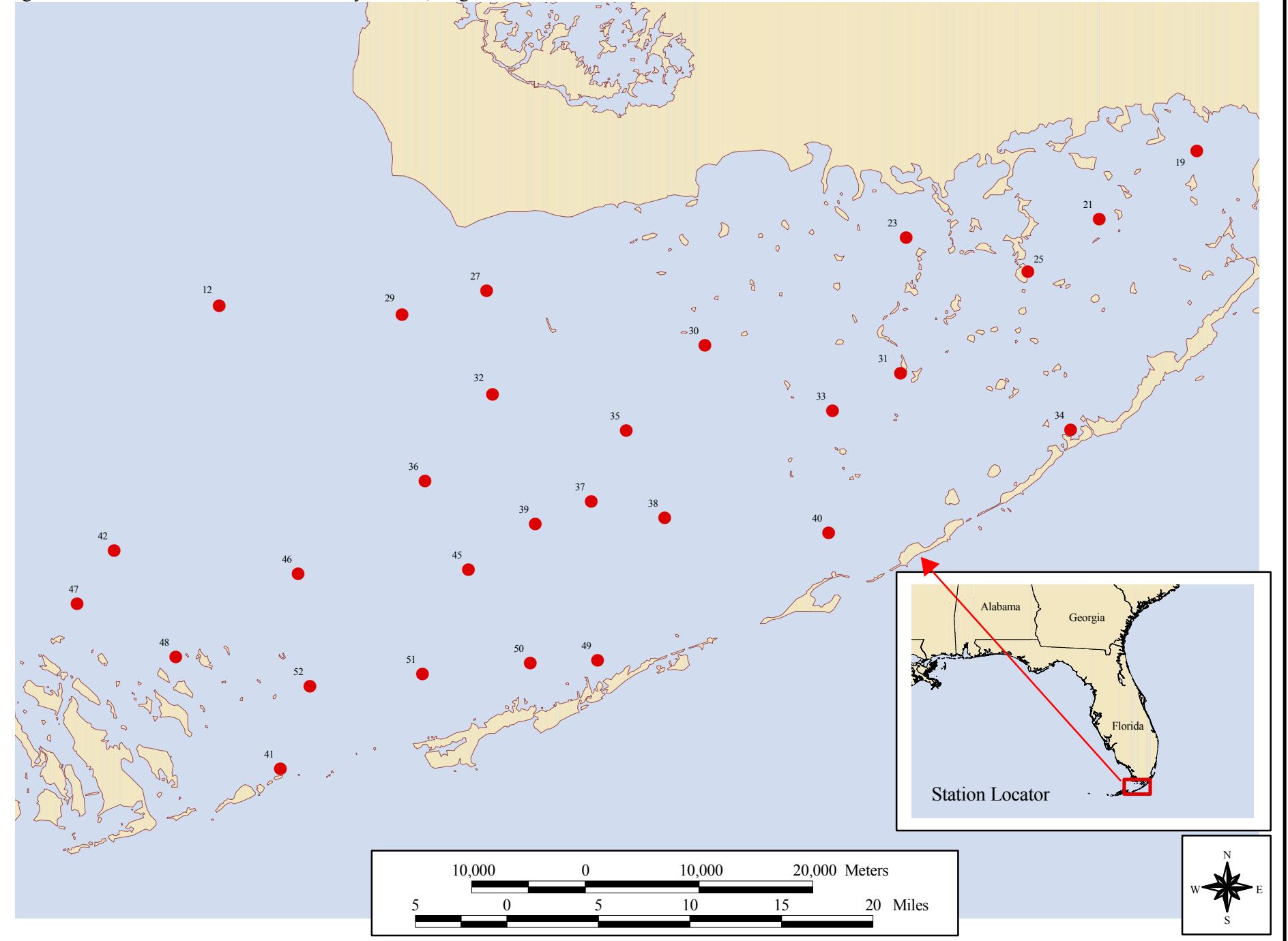


Figure 2. Depth and temperature data for the Florida Bay stations, August 2000.

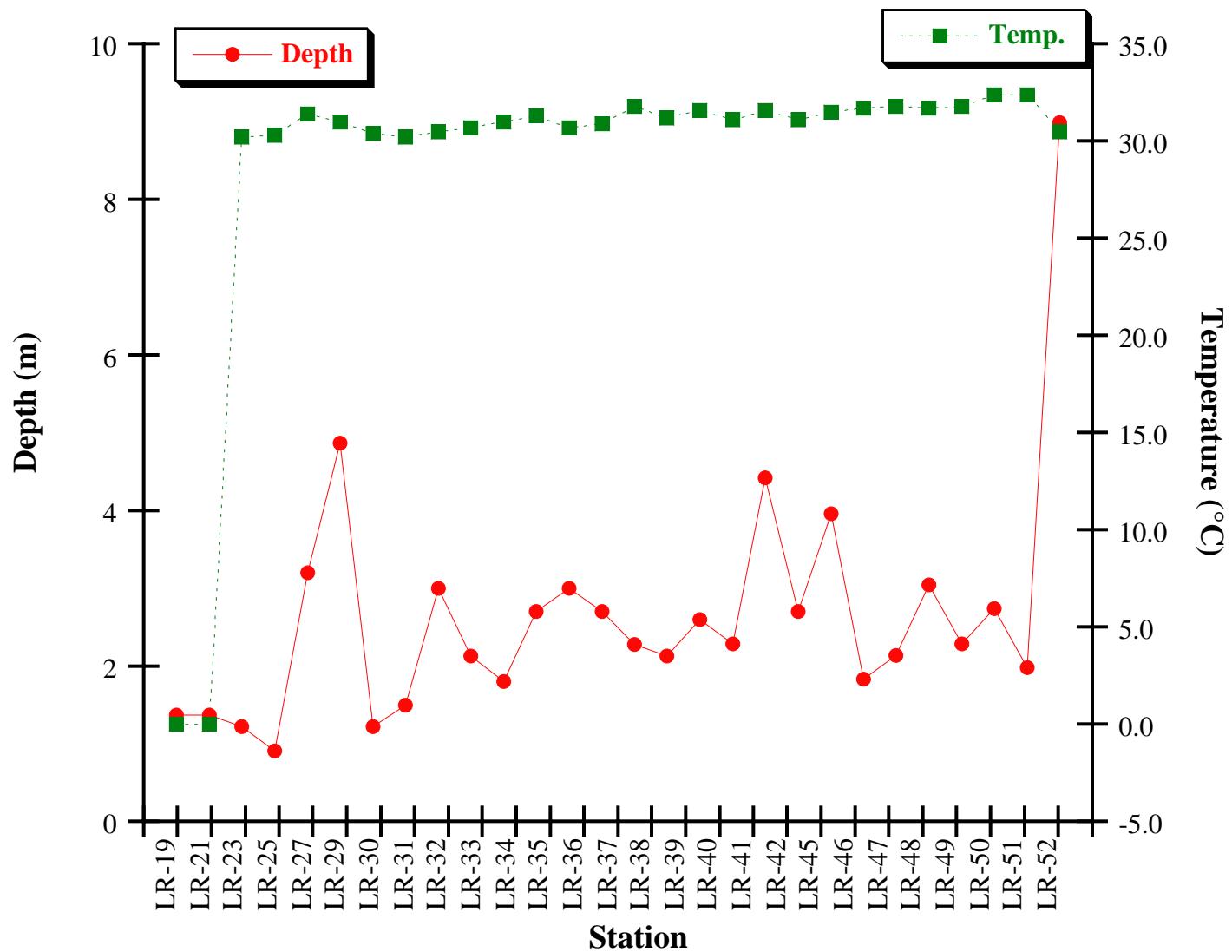


Figure 3. Salinity and dissolved oxygen data for the Florida Bay stations, August 2000.

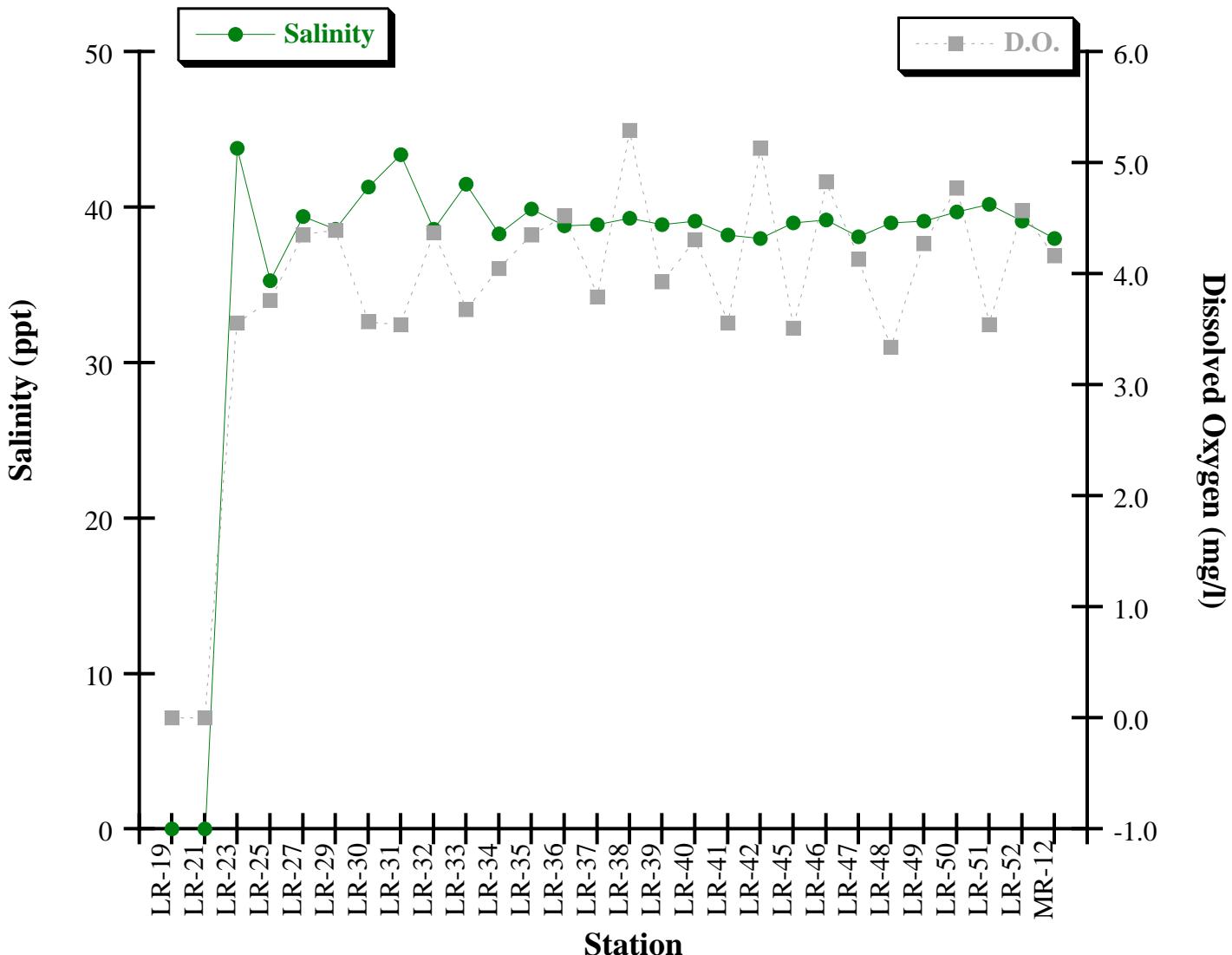


Figure 4. Sediment composition for the Florida Bay stations, August 2000.

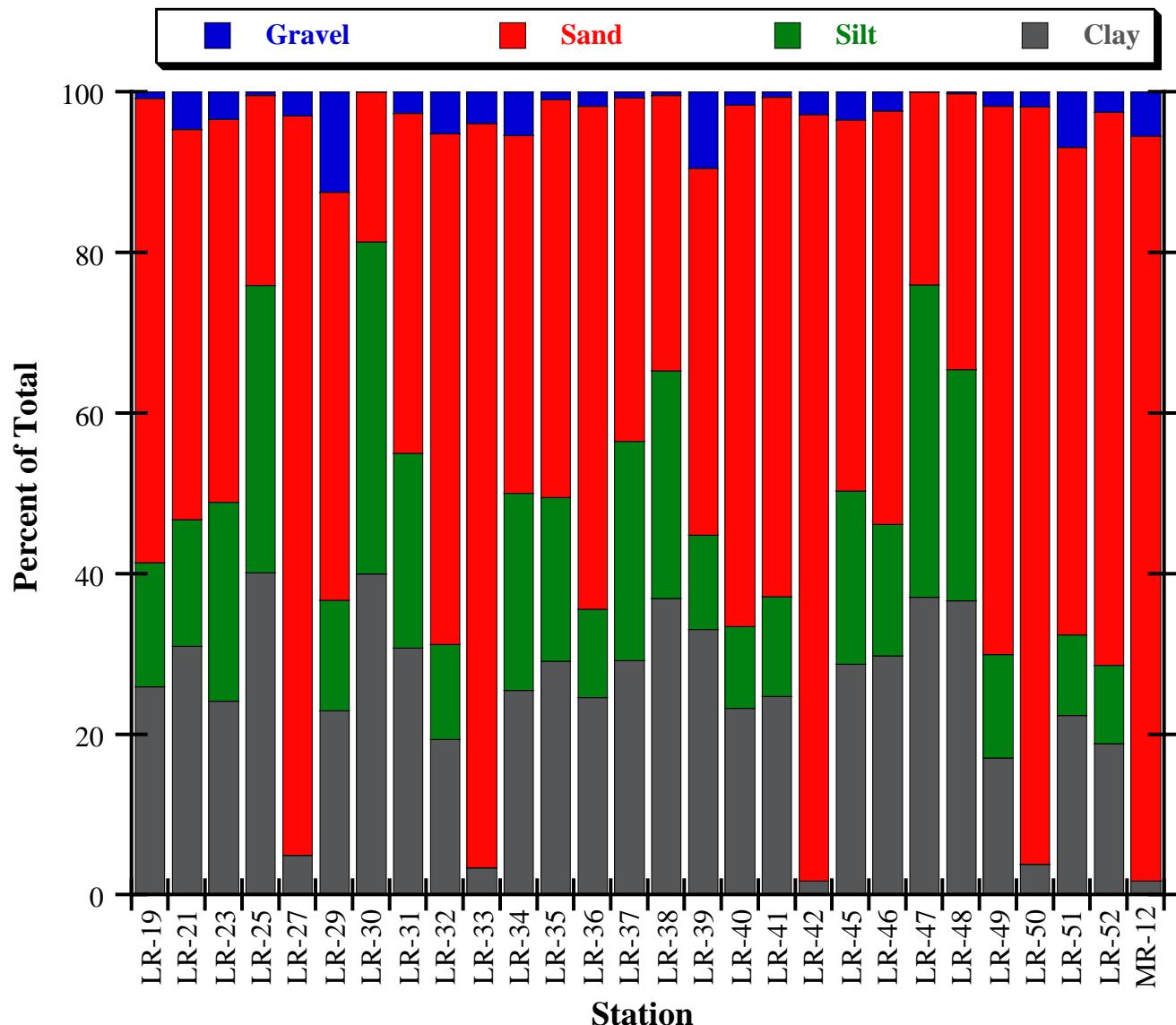


Figure 5. Spatial distribution of sediment composition for the Florida Bay stations, August 2000.

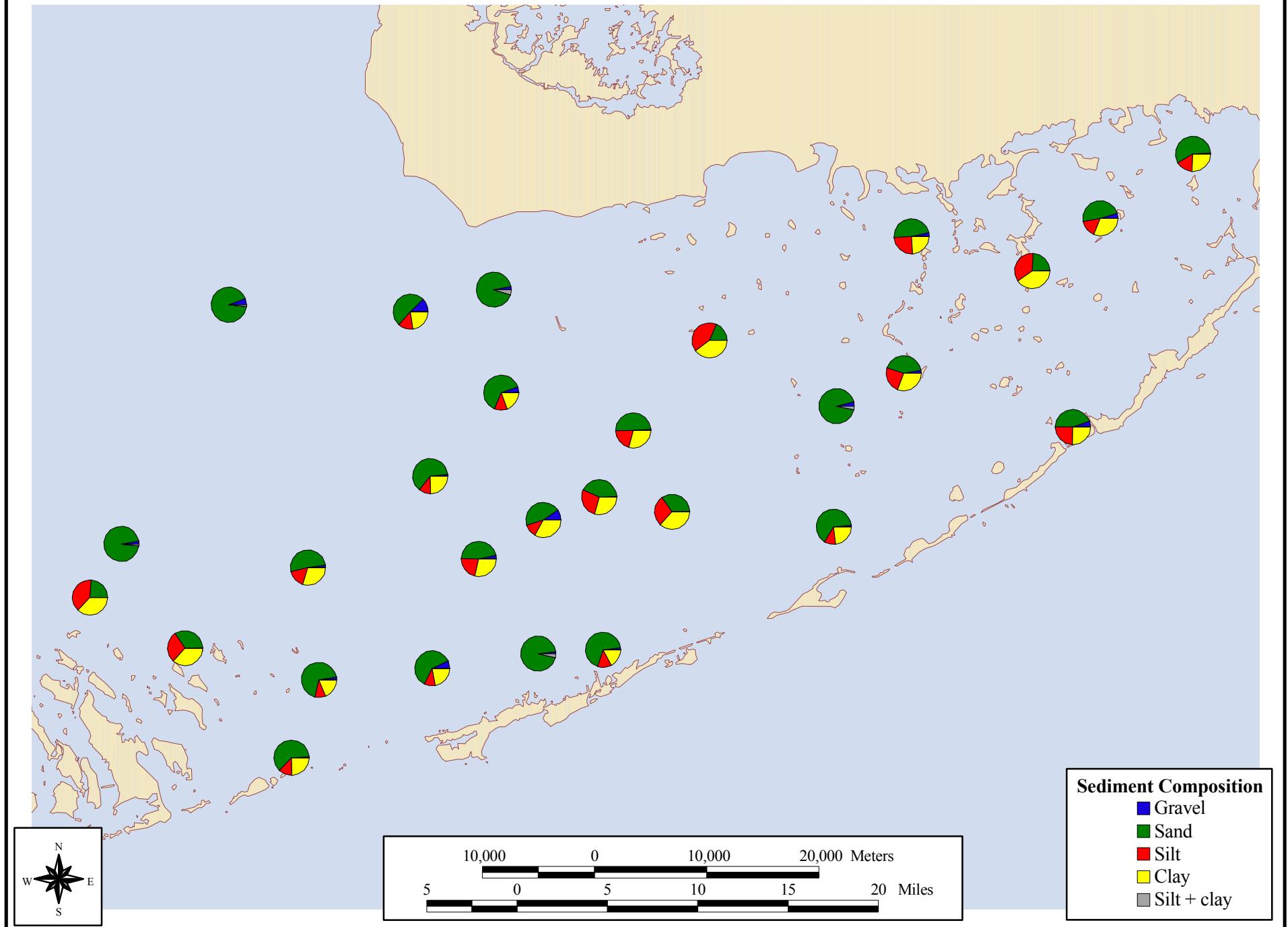


Figure 6. Mean particle size for the Florida Bay stations, August 2000.

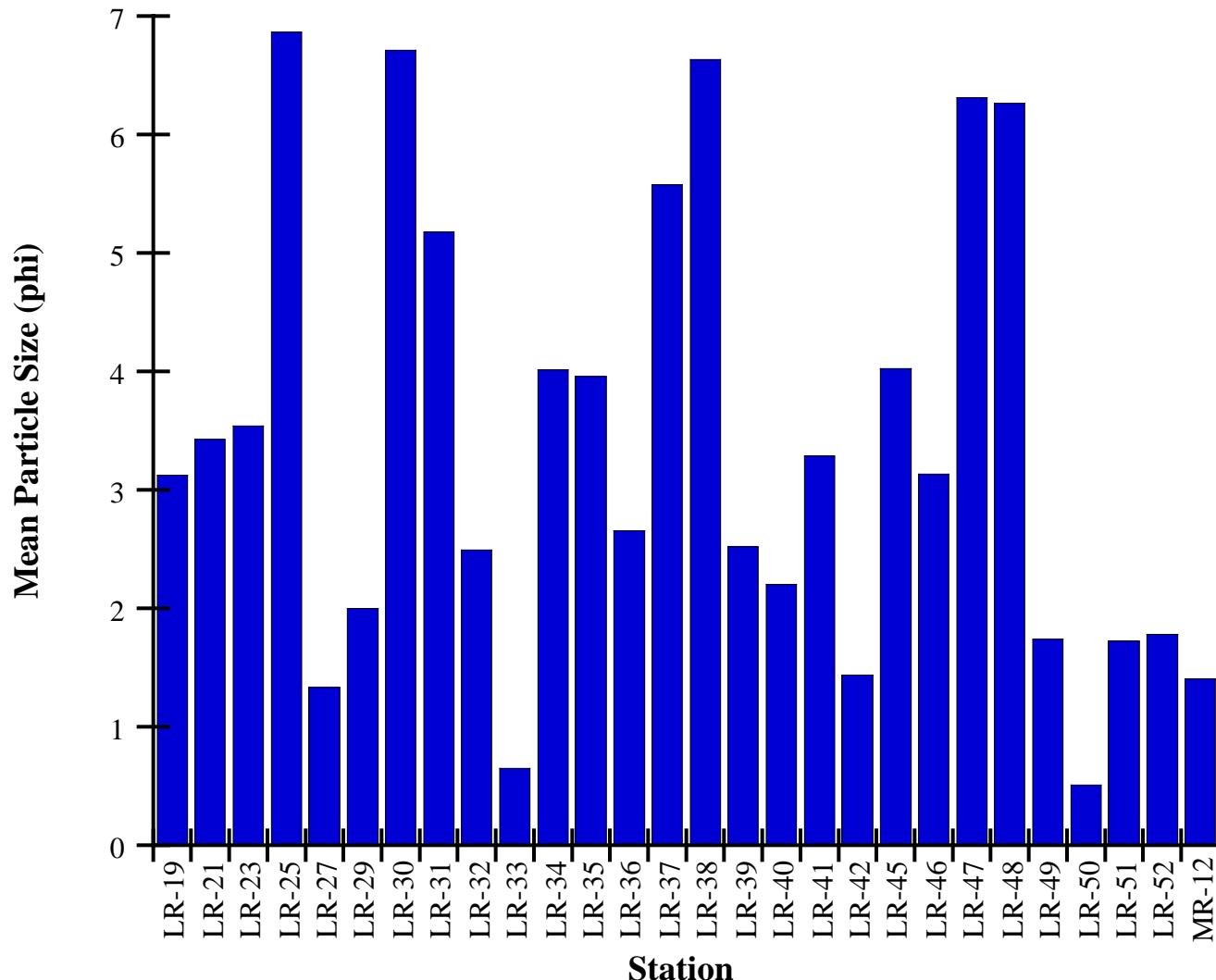


Figure 7. Sorting coefficient for the Florida Bay stations, August 2000.

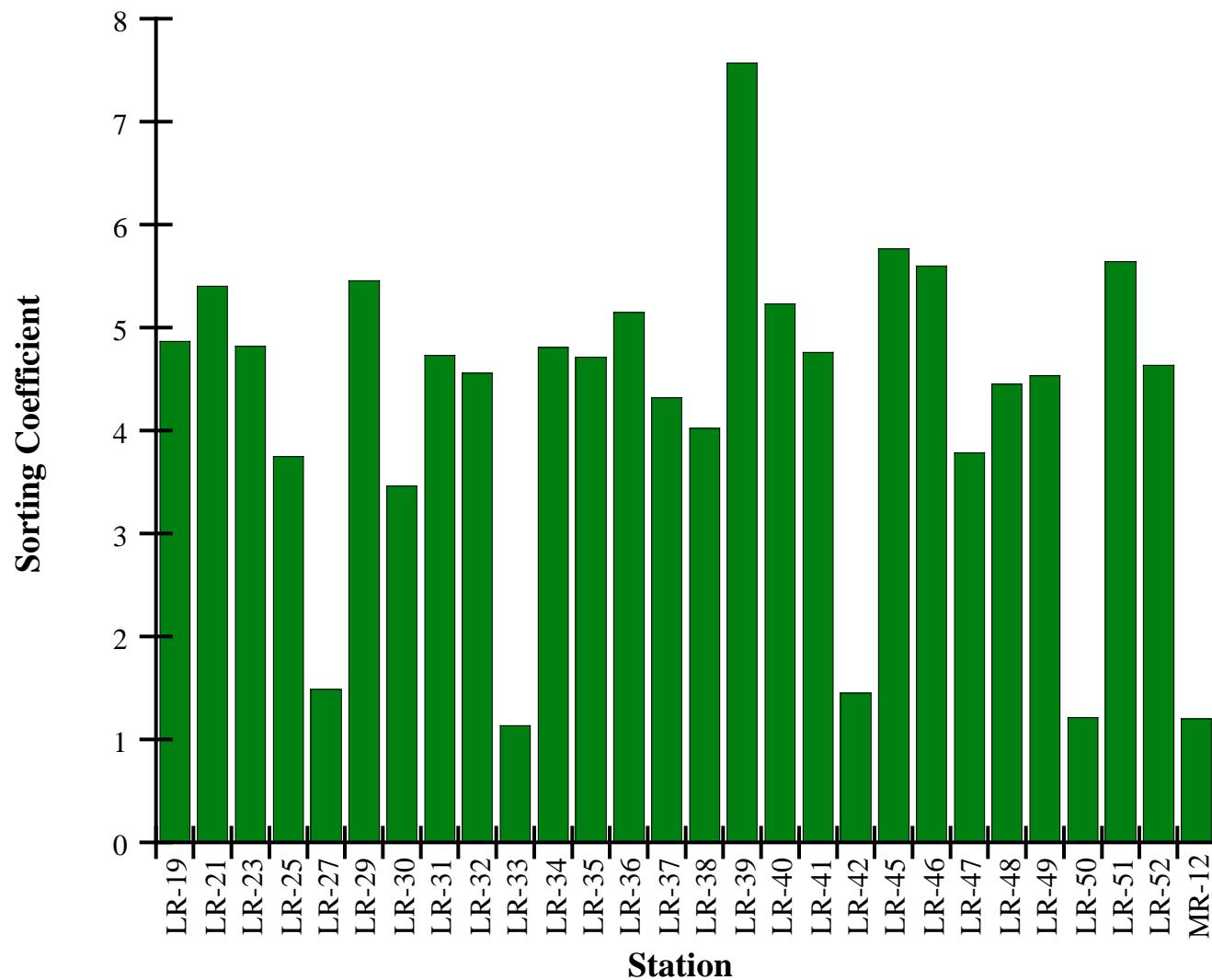


Figure 8. Percent total organic carbon (TOC) for the Florida Bay stations, August 2000.

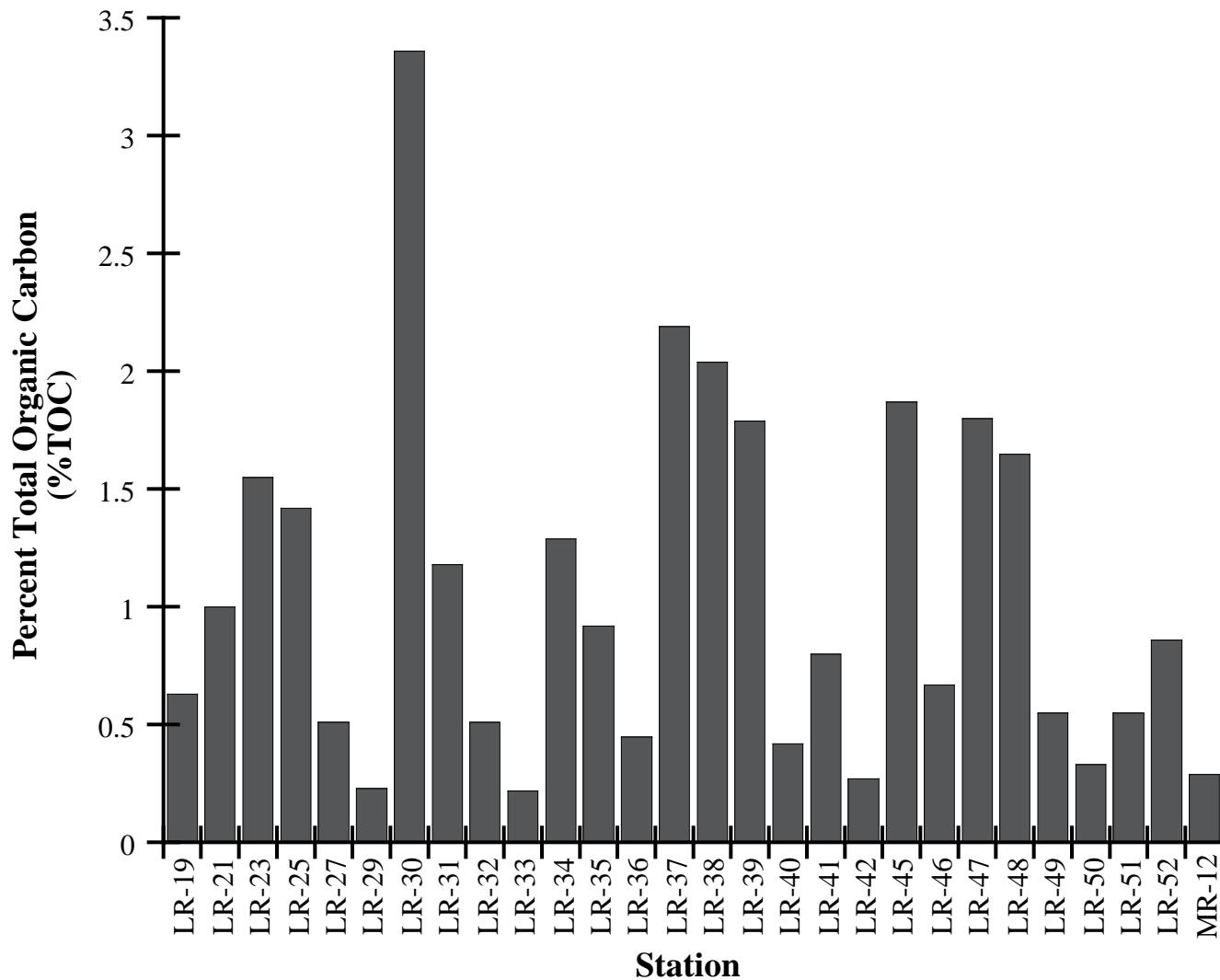


Figure 9. Percent abundance of major taxonomic groups for the Florida Bay stations, August 2000.

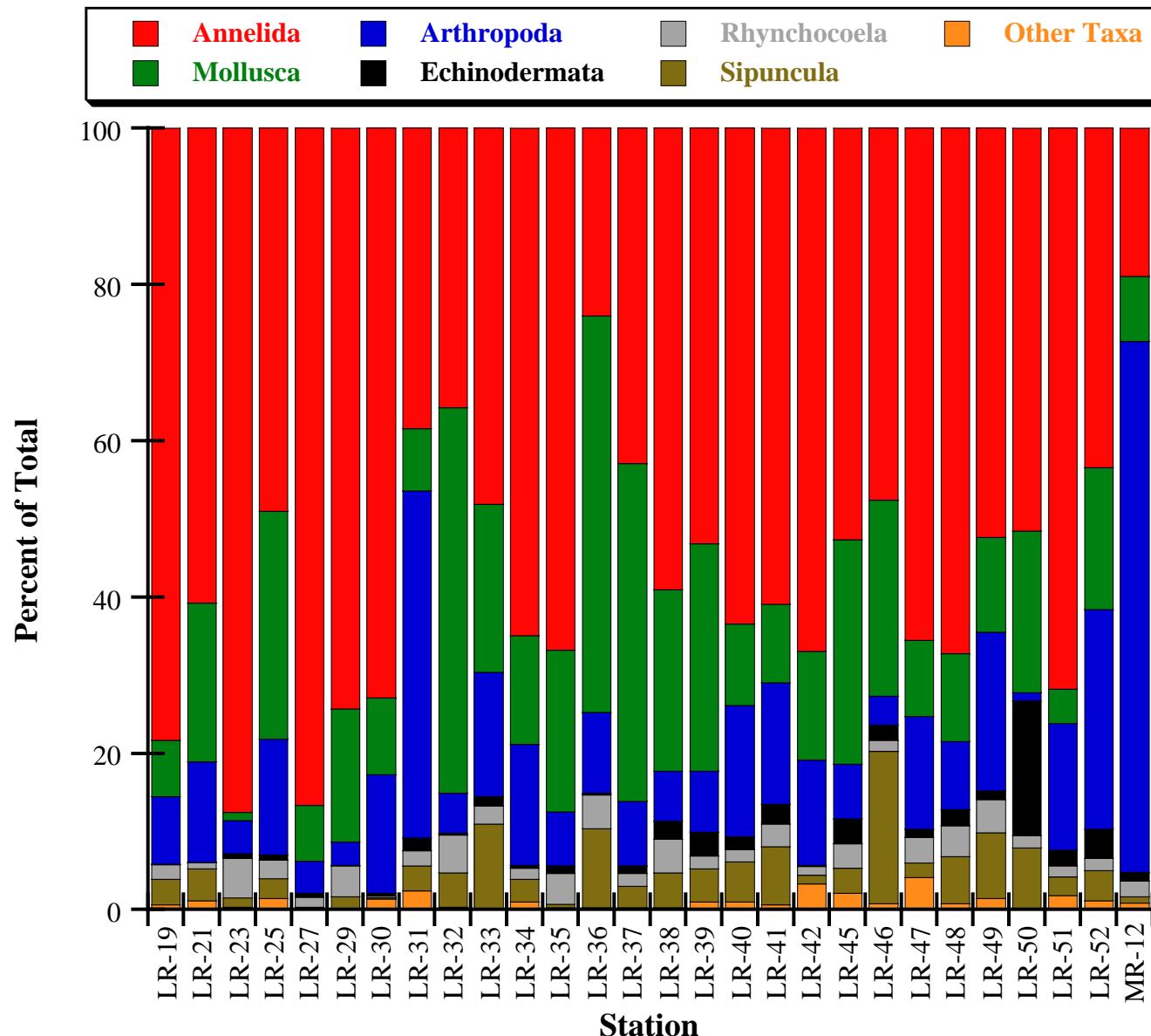


Figure 10. Spatial distribution of major taxonomic groups for the Florida Bay stations, August 2000.

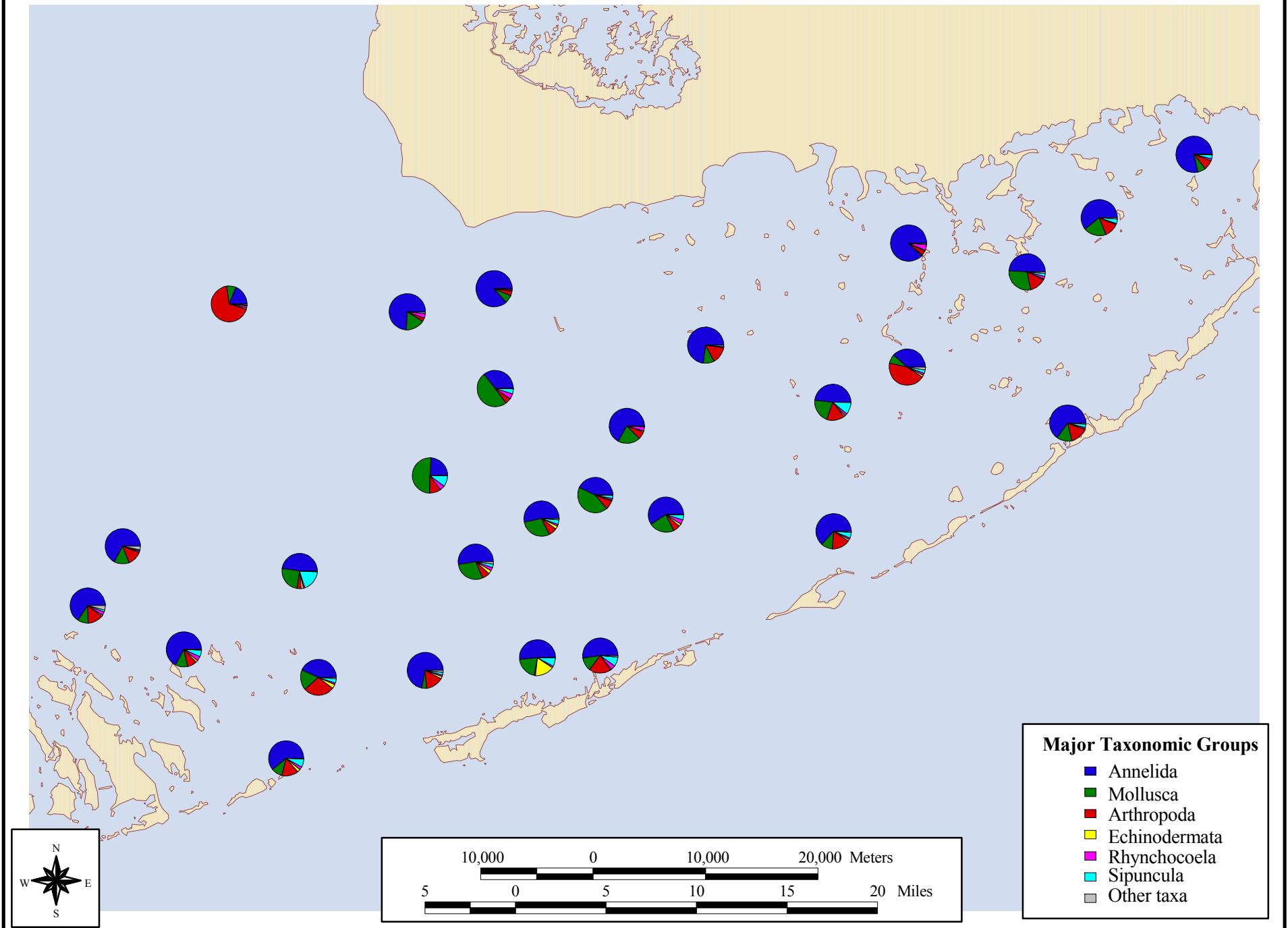


Figure 11. Mean macroinvertebrate density for the Florida Bay stations, August 2000.

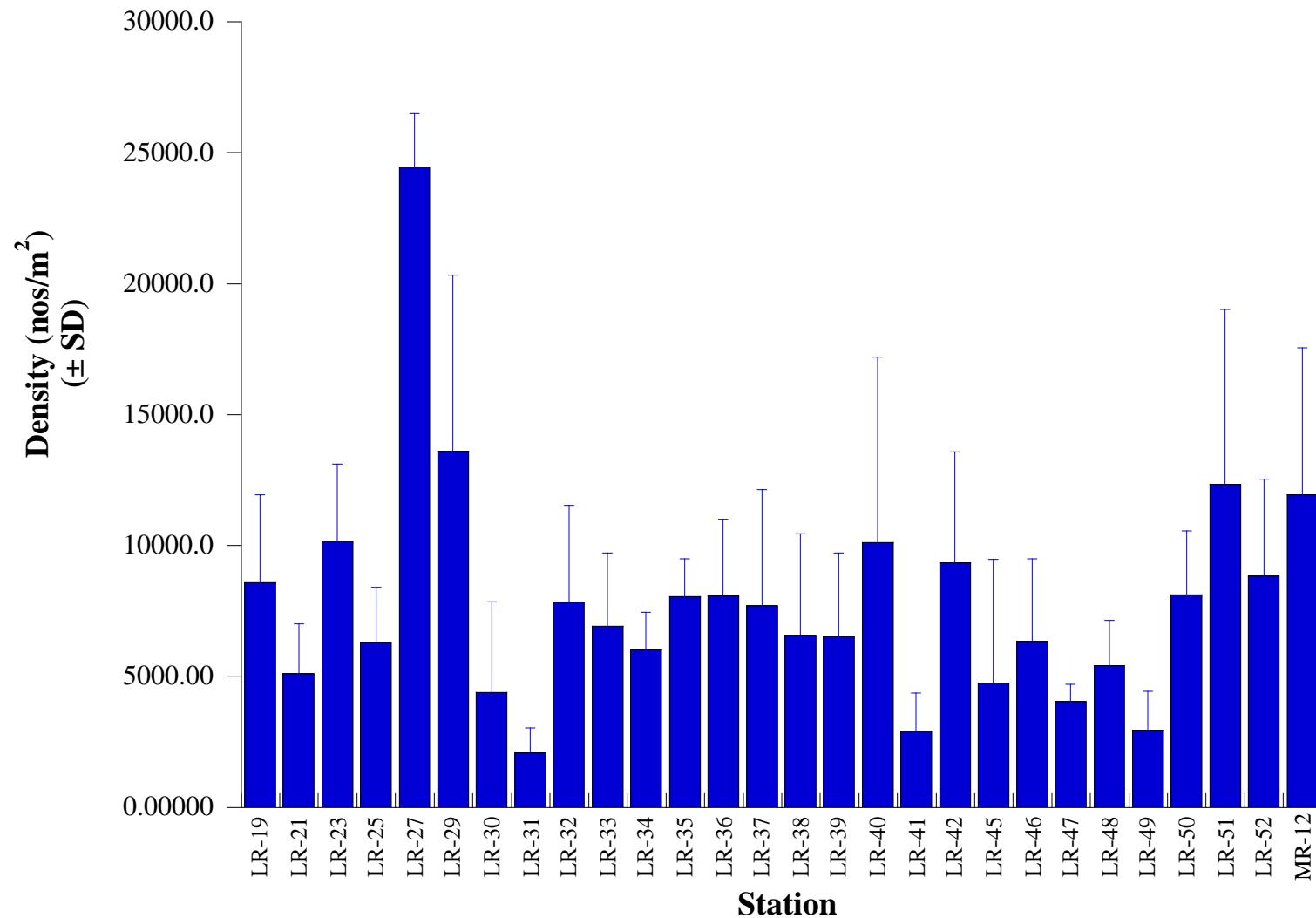


Figure 12. Spatial distribution of mean macroinvertebrate density for the Florida Bay stations, August 2000.

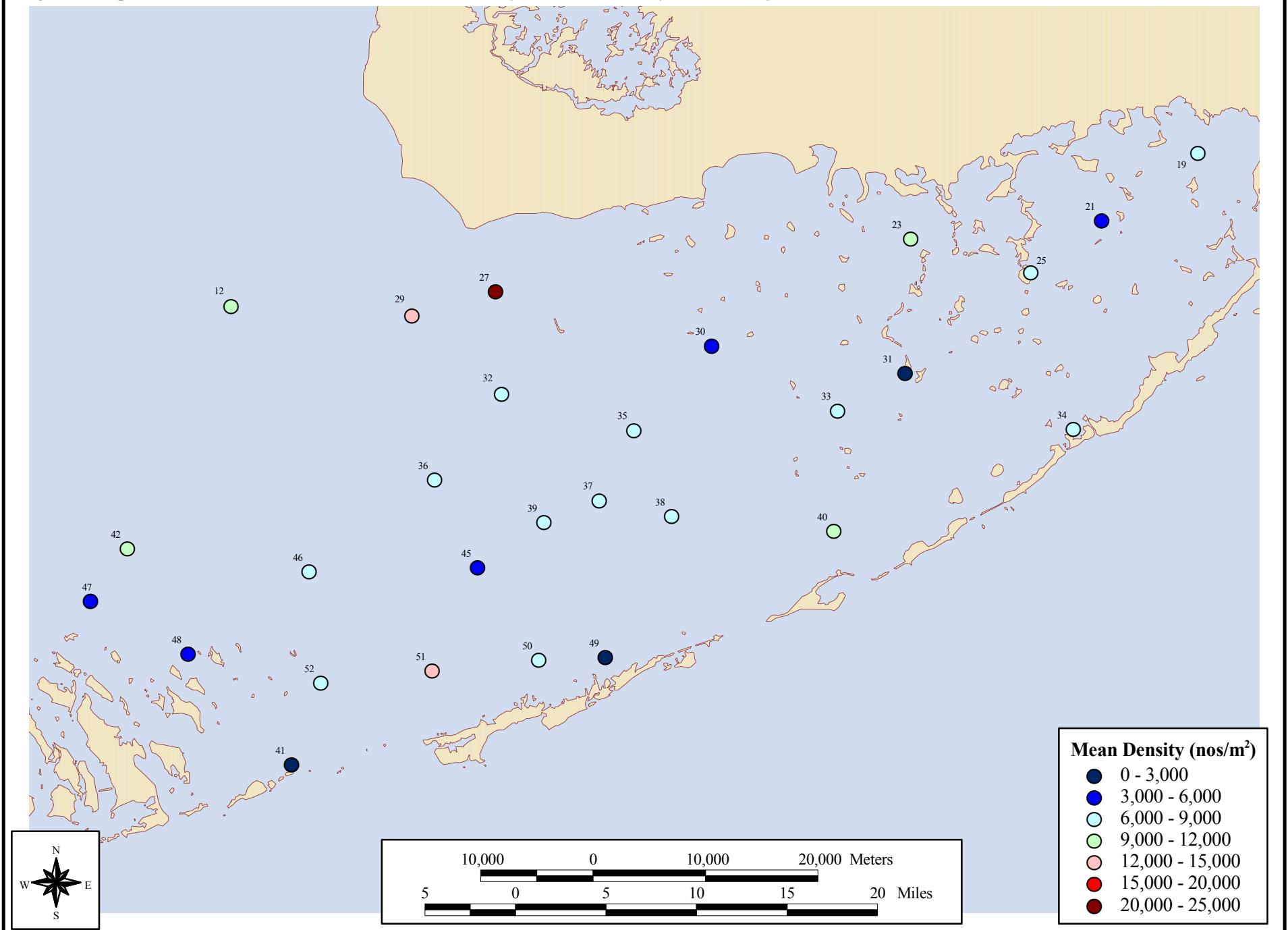


Figure 13. Mean number of taxa per replicate for the Florida Bay stations, August 2000.

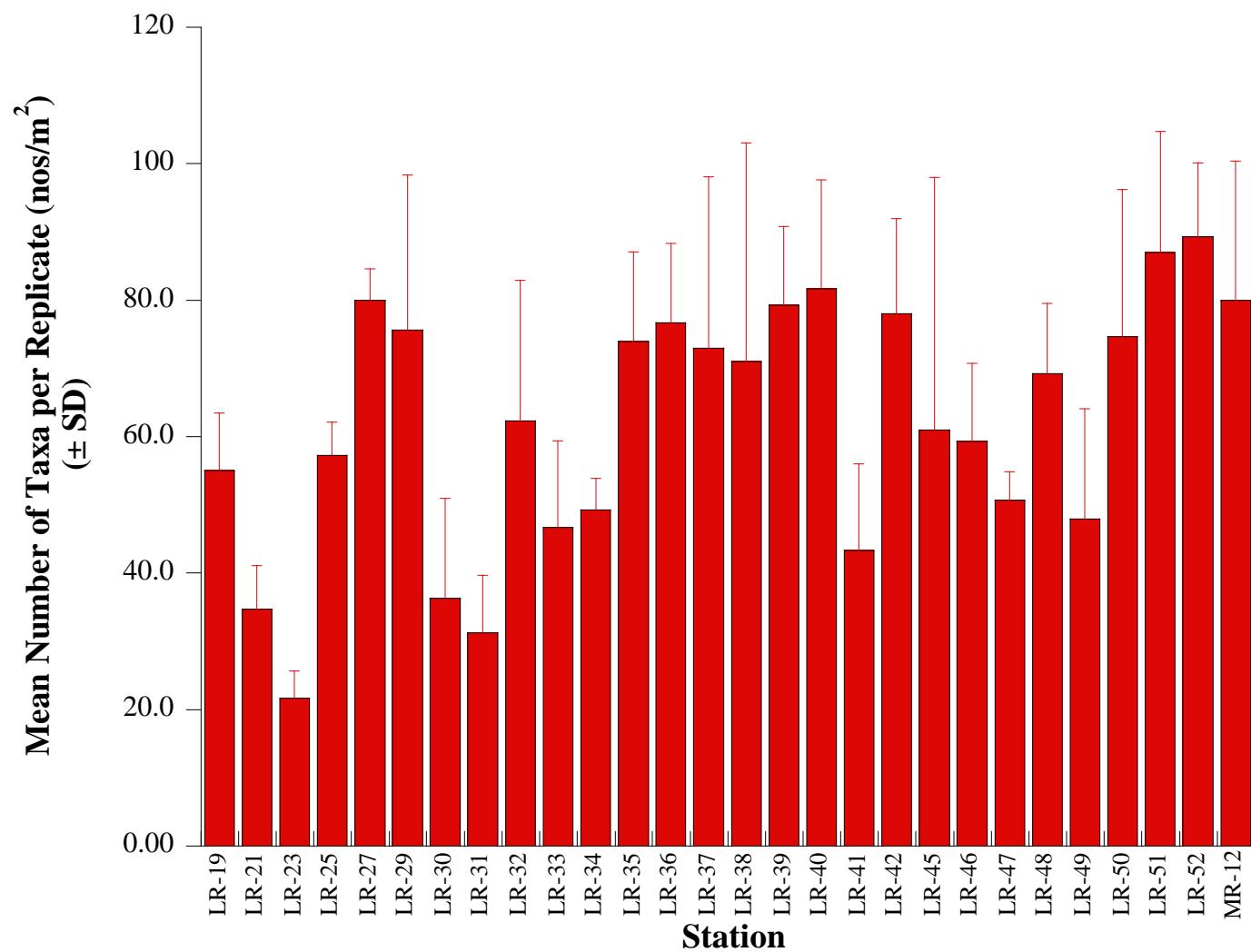


Figure 14. Spatial distribution of mean number of taxa per replicate for the Florida Bay stations, August 2000.

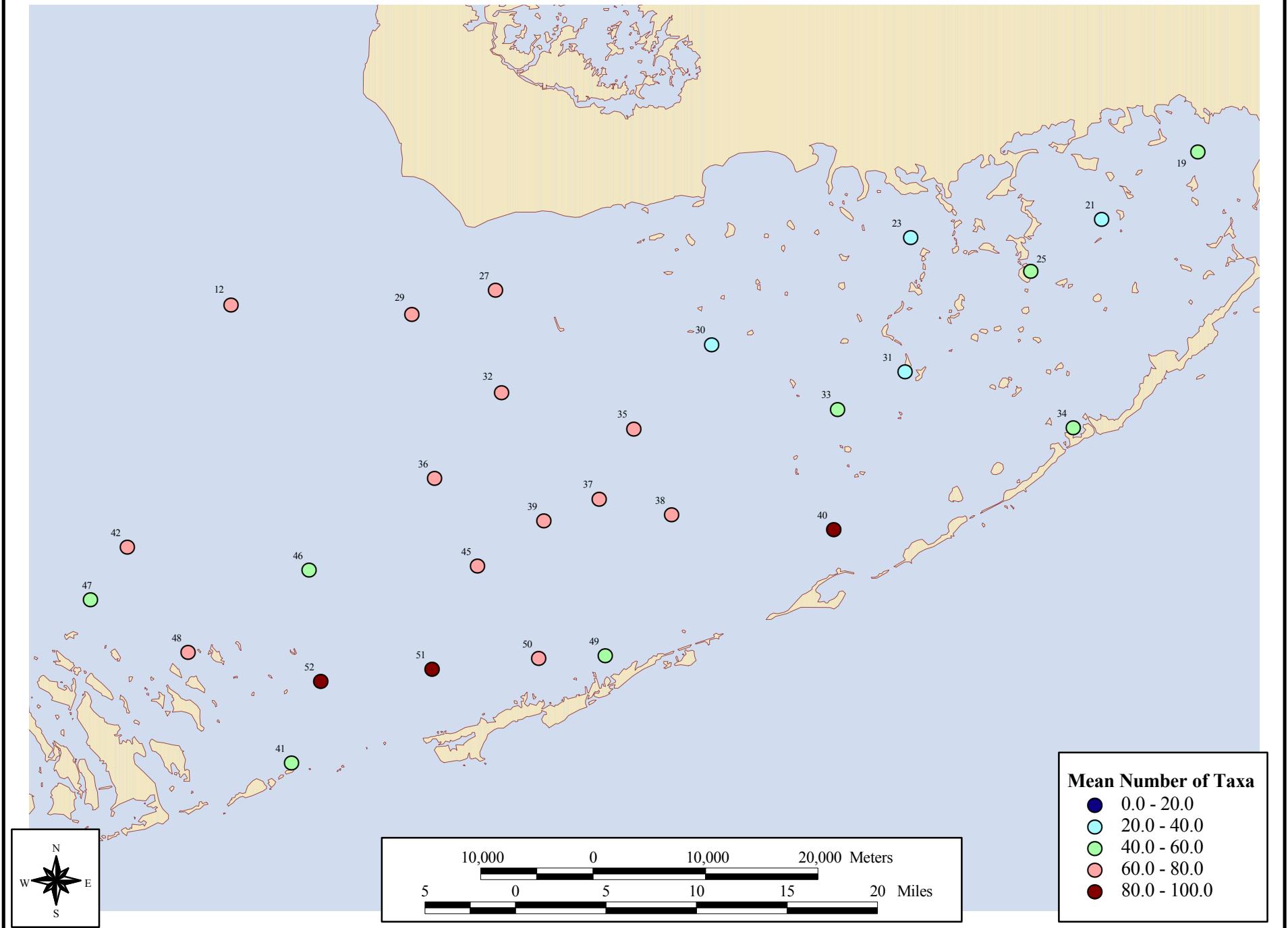


Figure 15. Taxa diversity (H') for the Florida Bay stations, August 2000.

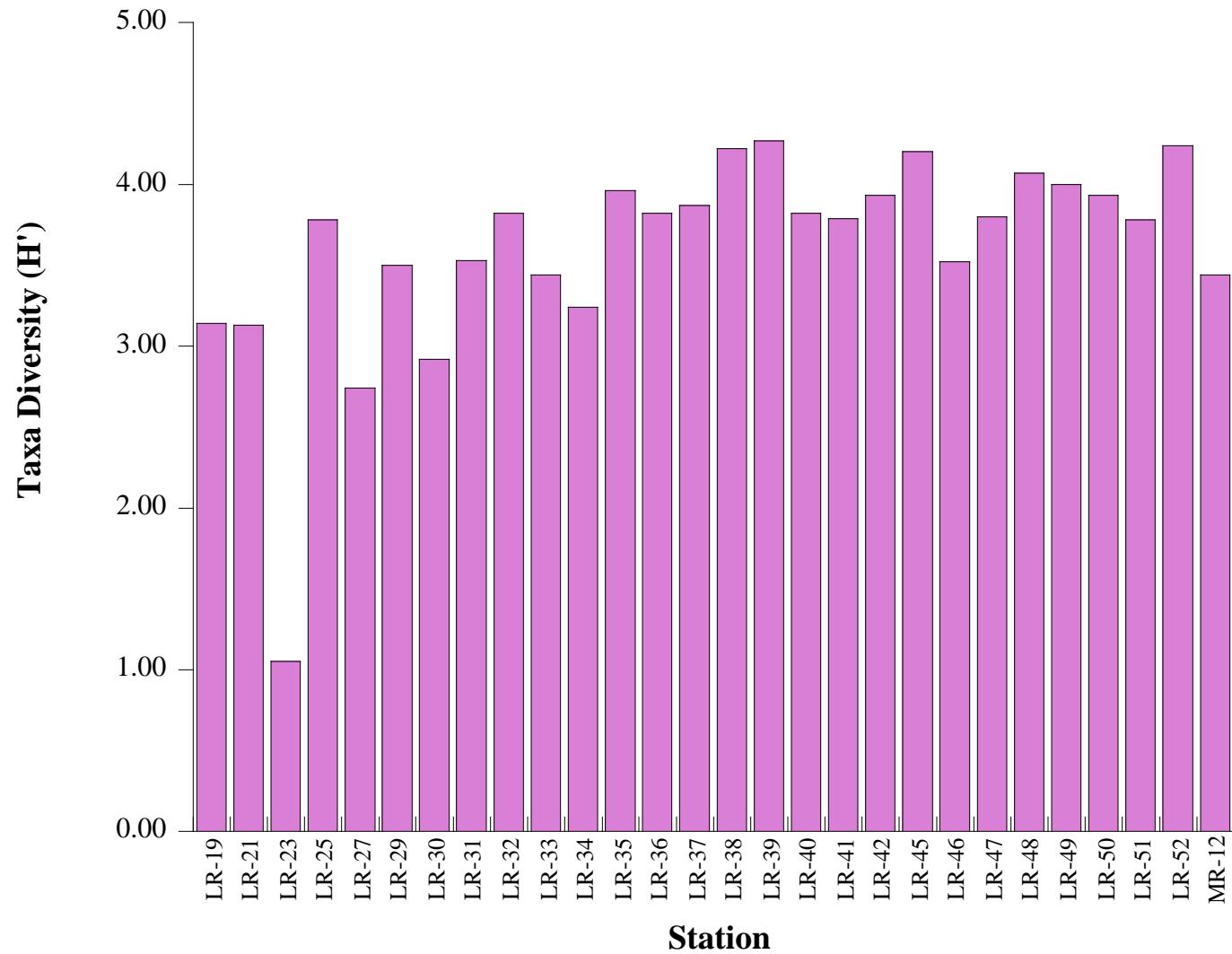


Figure 16. Spatial distribution of taxa diversity (H') for the Florida Bay stations, August 2000.

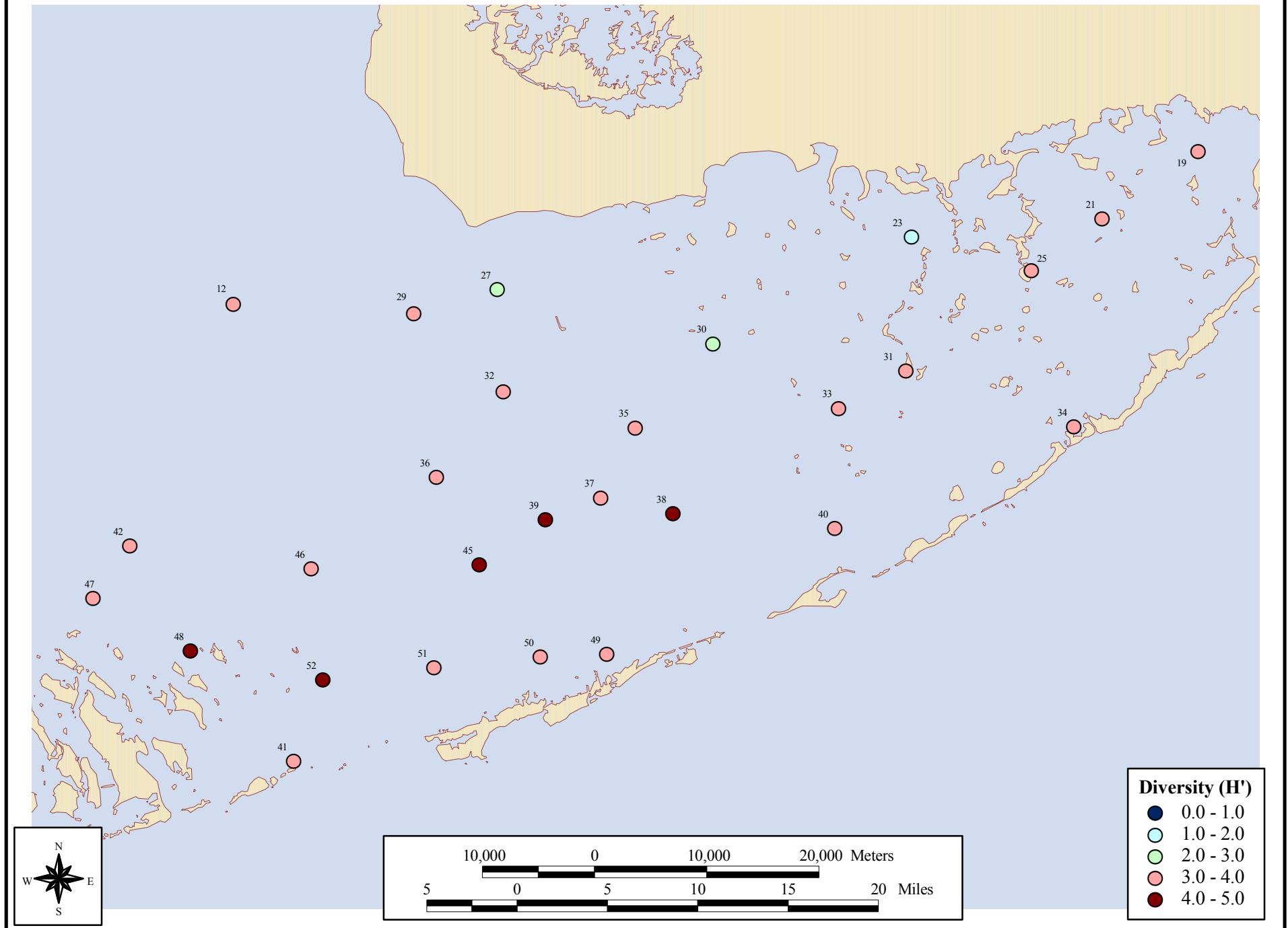


Figure 17. Taxa evenness(J') for the Florida Bay stations, August 2000.

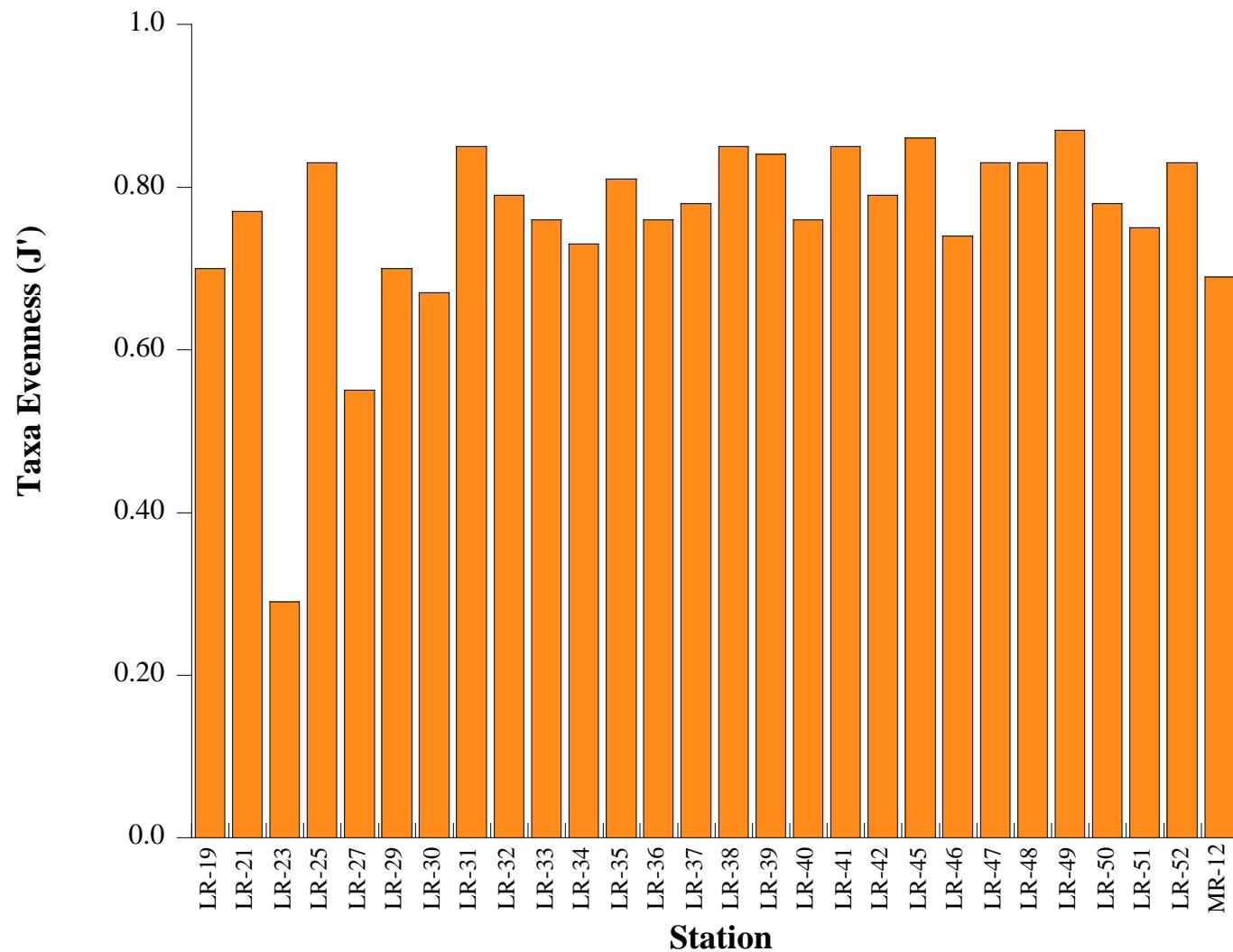
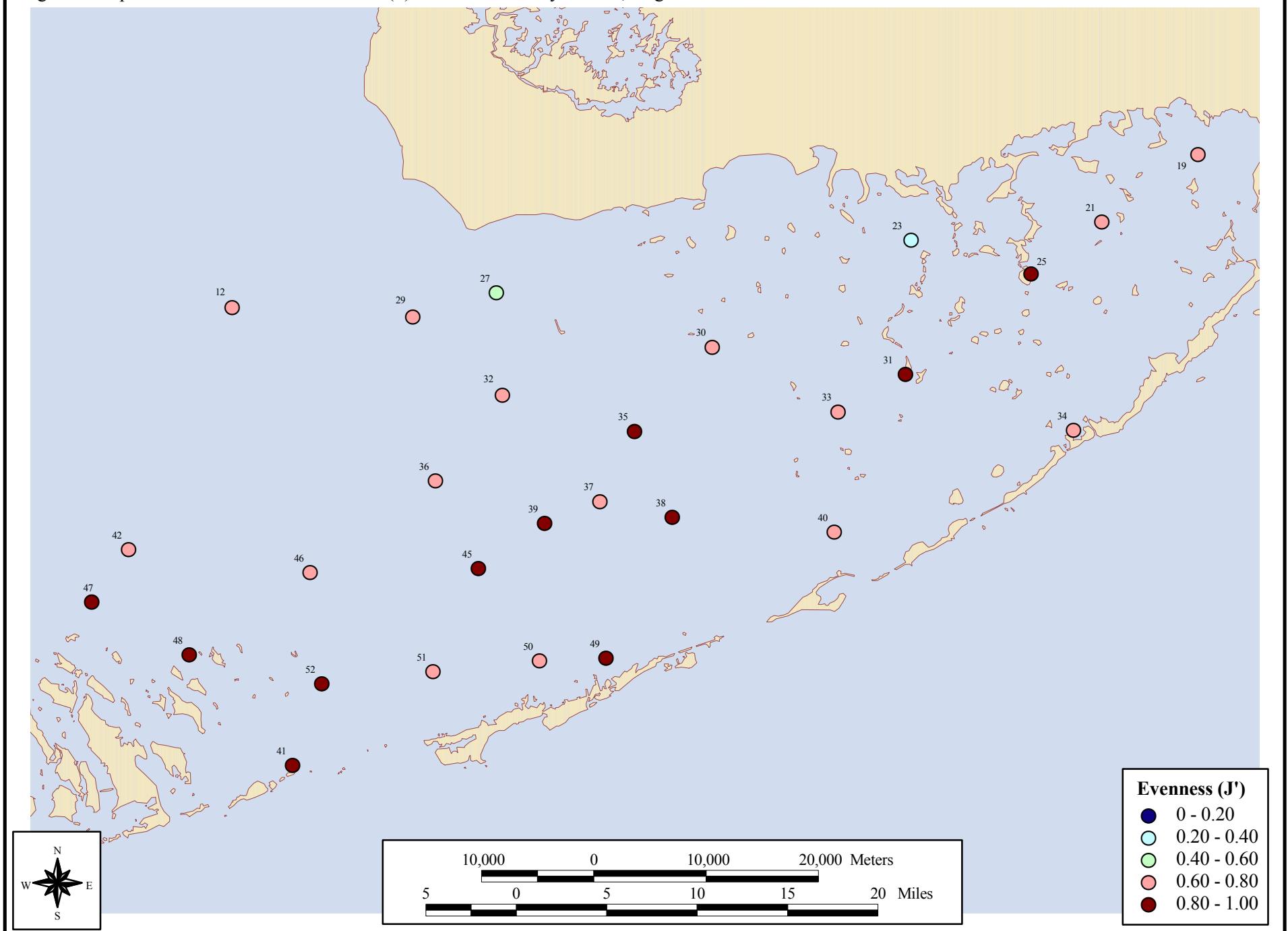


Figure 18. Spatial distribution of taxa evenness (J') for the Florida Bay stations, August 2000.



QUALITY ASSURANCE STATEMENT

Client/Project NOAA

Work Assignment Title Florida Bay 2000

Work Assignment Number

Task Number DO 3

Description of Data Set or Deliverable: 84 Benthic macroinvertebrate samples collected August, 2000; Young Dredge grabs.

Description of audit and review activities: Judged accuracy rates were well above standard levels for sorting and taxonomy. Laboratory QC reports were completed. Copies of QC results follow (see attachment.) All taxonomic data were entered into computer and printed. This list was checked for accuracy against original taxonomic data sheets.

Description of outstanding issues or deficiencies which may affect data quality: **None**

Signature of QA Officer or Reviewer

Date

Signature of Project Manager

Date

QUALITY CONTROL REWORKS

Client/Project NOAA Florida Bay 2000

Task Number DO 3

Sorting Results:	Sample #	% Accuracy
	LR-41-3	95%
	LR-21-3	100%
	LR-36-3	100%
	LR-30-2	100%
	LR-34-2	100%
	LR-34-1	100%
	LR-37-2	100%
	LR-29-2	100%

Taxonomy Results:	Sample #	Taxa	% Accuracy
	LR-49-3	Crust./Moll.	97%
	LR-31-1	Crust./Moll.	96%
	LR-40-1	Crust./Moll.	97%
	LR-30-2	Crust./Moll.	100%
	LR-49-2	Crust./Moll.	100%
	LR-47-3	Crust./Moll.	96%
	LR-37-2	Crust./Moll.	97%
	LR-32-3	Crust./Moll.	96%
	LR-25-2	Crust./Moll.	97%
	LR-21-2	Poly./Misc.	99%
	LR-50-2	Poly./Misc.	97%
	LR-30-3	Poly./Misc.	99%
	LR-39-1	Poly./Misc.	98%
	LR-34-1	Poly./Misc.	97%
	LR-36-2	Poly./Misc.	97%
	LR-46-1	Poly./Misc.	98%
	LR48-3	Poly./Misc.	98%

Description of outstanding issues or deficiencies which may affect data quality: None

Signature of QA Officer or Reviewer

Date

Appendix A3. Lowest practical identification levels (LPIL) for the Florida Bay stations, August 2000.

Taxon Name	Phylum	Class	Comment
<i>Mediomastus</i> (LPIL)	Ann	Poly	anterior portions only, pygidium needed for species ID.
<i>Fabricinuda trilobata</i>	Ann	Poly	
<i>Exogone rolani</i>	Ann	Poly	
<i>Tubificidae</i> (LPIL)	Ann	Olig	sexually immature
<i>Caecum pulchellum</i>	Mol	Gast	
<i>Leptochetia</i> (LPIL)	Art	Mala	mature male necessary for species identification.
<i>Sipuncula</i> (LPIL)	Sip	—	juvenile specimen or missing characters
<i>Monticellina dorsobranchialis</i>	Ann	Poly	
<i>Scoletoma verrilli</i>	Ann	Poly	
<i>Nucula aegeenis</i>	Mol	Biva	
<i>Rhynchocoela</i> (LPIL)	Rhy	—	no identifiable characters.
<i>Cirrophorus lyra</i>	Ann	Poly	
<i>Cirratulidae</i> (LPIL)	Ann	Poly	anterior fragment, posterior needed for specis ID.
<i>Syllis broomensis</i>	Ann	Poly	
<i>Exogone lourei</i>	Ann	Poly	
<i>Ampelisca vadorum</i>	Art	Mala	
<i>Chione cancellata</i>	Mol	Biva	
<i>Capitellidae</i> (LPIL)	Ann	Poly	immature and/or anterior portion only.
<i>Schistomeringos pectinata</i>	Ann	Poly	
<i>Maldanidae</i> (LPIL)	Ann	Poly	fragmented portion, pygidium necessary for positive identification.
<i>Nereididae</i> (LPIL)	Ann	Poly	missing identificaton characters and/or immature.
<i>Phascolion strombi</i>	Sip	—	
<i>Tubulanus</i> (LPIL)	Rhy	Anop	genus is lowest identification level.
<i>Schwartziella catesbyana</i>	Mol	Gast	
<i>Ophiuroidea</i> (LPIL)	Ech	Ophi	central disk missing characters.
<i>Prionospio</i> (LPIL)	Ann	Poly	missing identification characters
<i>Actiniaria</i> (LPIL)	Cni	Anth	order is lowest identification level.
<i>Syllis cornuta</i>	Ann	Poly	
<i>Lembos</i> (LPIL)	Art	Mala	need adult male with all appendages.
<i>Branchiomma nigromaculata</i>	Ann	Poly	
<i>Caecum floridanum</i>	Mol	Gast	
<i>Caecum nitidum</i>	Mol	Gast	
<i>Lumbrineridae</i> (LPIL)	Ann	Poly	damaged and/or immature specimen.
<i>Aricidea taylori</i>	Ann	Poly	
<i>Solemya occidentalis</i>	Mol	Biva	
<i>Taylorpholoe hirsuta</i>	Ann	Poly	
<i>Aricidea philbiniae</i>	Ann	Poly	
<i>Armandia maculata</i>	Ann	Poly	
<i>Prionospio cristata</i>	Ann	Poly	
<i>Decamastus</i> sp. A	Ann	Poly	
<i>Mediomastus californiensis</i>	Ann	Poly	
<i>Elasmopus levius</i>	Art	Mala	
<i>Haplosyllis spongicola</i>	Ann	Poly	
<i>Sabellidae</i> (LPIL)	Ann	Poly	missing branchial crown.
<i>Pettibonella multiuncinata</i>	Ann	Poly	
<i>Sphaerosyllis piriferopsis</i>	Ann	Poly	
<i>Caecum imbricatum</i>	Mol	Gast	
<i>Finella dubia</i>	Mol	Gast	